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Z. ZIEGLER

Ziegler, A. C.

1950

Catalogue

nos. Z2M-Z3M

(mammals)

A.C. ZIEGLER
1950

CATALOG (MAMMALS)

MR + MRS. NEWPORTS FARM, KNOXVILLE, KNOX CO., TENN.
JULY 4 (TRAPPING WITH FRANK WOODS)

LOST? Z-2m ♀ (6 EMB'S RT. SIDE) MUS MUSCULUS 161-77-17-? WT-18.9 GR.

U.T. CHICKEN FARM, KNOXVILLE, KNOX CO., TENNESSEE
JULY 6 (TRAPPING WITH FRANK WOODS)

LOST? Z-3m ♀ (6 EMBS) MUS MUSCULUS 162-77-17-? WT-19.8 GR.

END 1950

Ziegler, A.C.
1952
Catalogue
nos. Z6-Z11 (birds)
no. Z4M (mammal)

A.C. ZIEGLER
1952

CATALOG (BIRDS)

MEMPHIS, SHELBY CO., TENN. (FROM BEN B. COFFEY)

OCT 8

1 PHILIPS UNIV. ARIZ TUCSON — Z-6 SEX? IMM.? CHAETURA

OCT. 12 "

" Z-7 SEX? AD. CHAETURA

" Z-8 SEX? AD. "

" Z-9 SEX? AD. "

SARDIS DAM, PANOLA CO., MISS (FROM R. DEMETT SMITH)

OCT. 18

1 HOWELL UNIV. TENN KNOXVILLE — Z-10 ♂ PODILYMBUS FOUND DEAD NEAR LAKE - APPARENTLY FLEW INTO WIRE AT NIGHT.

ABOARD U.S.S. WM. MITCHELL, TWO DAYS OUT OF SAN FRANCISCO ENROUTE TO YOKOHAMA, JAPAN.

DEC. 13 (FROM EM.F.N. TOM BRANDS)

1 LONERY LSU BATON ROUGE — Z-11 SEX? "ALCIO" FEET + LEGS LIGHT BLUE

END 1952 (BIRDS)

Ziegler, A.C.

1952

Journal

HISTORY & SPECIES OF THE TAR-BEDS.
BIRDS - *ACCIPITER VELOX, (1)*, ZENAIDURA

J.C. ZIEGLER
1952
(TRANSCRIBED)

JOURNAL

OCT 31 NEAR FIVE LAKE OUTING CLUB, HORSESHOE LAKE, ARKANSAS.

LARGE NEST 1'X1.5'X.7' UNDER EAVES IN ATTIC OF ABANDONED SHARECROPPER'S HOUSE NOW USED FOR HAY STORAGE. NEST WAS BUILT OF STRAW, GRASSES, SHINGLES & OTHER RUBBISH. THE HOUSE WAS TIN ROOFED & APPARENTLY HAD ONCE BEEN WOOD-SHINGLED. BROKEN SHINGLES LAY IN ATTIC AND MANY HAD BEEN BROUGHT TO NEST, TOOTH MARKS SHOWING ON NEARLY EVERY PIECE OF WOOD IN NEST.

THE ATTIC FLOOR & INSIDE OF ROOF WERE COVERED WITH MUD-DAUBER NESTS & MOST OF THEM WERE GNAWED OPEN & THE LARVAE APPARENTLY EATEN. SEVERAL OF THESE OPENED INSECT CASES WERE FOUND IN THE NEST.

ALSO FOUND IN THE NEST WERE GNAWED CORN CORS, CHICKEN BONES & FRIED FISH BONES PROBABLY FROM LUNCHES OF FARM WORKERS.

WOOD RATS NEST?

NOV 15 LABREA TAR PITS, WILSHIRE BLVD, LOS ANGELES, CALIF. 2:00PM - 2:30 P.M.

WEATHER - CLEAR, COOL. A SHORT LOOK AT THE PITS & SIGNS TELLING HISTORY & SPECIES OF THE TAR-BEDS.

BIRDS - *ACCIPITER VELOX, (1)*, ZENAIDURA

C. ZIEGLER
1952
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NOV 15 (CONT) MACROURA (1)*, SAYORNIS NIGRICANS (1)*, APHELOCOMA CALIFORNICA (1)*, MIMUS POLYGLOTTOS (2),

AT THE HOLLYWOOD BOWL – PIPILO FUSCUS (2)* AT 4:00 P.M.

NOV 16 FRESNO PARK ZOO, FRESNO, CALIF. 12:00 N – 12:30 P.M. WEATHER-CLEAR, WARM DRIVING THRU IN CAR THE FOLLOWING BIRDS WERE SEEN – PSALTRIPARUS MINIMUS (10)*, MIMUS POLYGLOTTOS (1), REGULUS SATRAPA (2),

NEAR LOS BANOS, SAN JOAQUIN VALLEY (HIWAY 152), CALIF. 3:30 PM – 4:00 PM. WEATHER-CLEAR, WARM. WIND-NEG. BIRDS SEEN FROM CAR IN MARSHS & FIELDS BESIDE HIWAY – FULICA AMERICANA (1,000), TOTANUS MELANOLEUCUS (1), PICA SP. (NUTTALLI ?) (5)*?, BAEOLOPHUS INORNATUS (2)*, (TITMICE IN SALINAS HILLS)

MONTEREY WATERFRONT, MONTEREY, CALIF. 6:00 P.M. (DUSK), WEATHER CLEAR, COOL. WIND-MODERATE.
BIRDS – COLYMBUS AURITUS (5)*, AECHMOPHORUS OCCIDENTALIS (3)*, GEOCETHIA ALBA (13), PHALAROPUS FULICARIUS (10)*, LARUS ARGENTATUS (5),

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NOV 17 MONTEREY WATERFRONT, MONTEREY, CALIF.
WEATHER - CLEAR, COOL WIND - MODERATE.
8:00 AM - 8:45 AM.
WALKED ALONG HALF MILE OF BEACH & BACK TO CAR AT FISHERMAN'S WHARF.
BIRDS - GAVIA IMMER (2), COLYMBUS AURITUS (10), COLYMBUS NIGRICOLLIS (2)*, AECHMOPHORUS OCCIDENTALIS (8), PELECANUS OCCIDENTALIS (1), PHALACROCORAX AURITUS (1), MELANITTA PERSPICILLATA (10)*, ARENARIA INTERPRES (1), ARENARIA MELANOCEPHALA (15)*, PHAEOPUS HUDSONICUS (1)*, CATOPTROPHORUS SEMIPALMATUS (1), CROCETHIA ALBA (10), PHALAROPUS FULICARIUS (15), LARUS PHILADELPHIA (1),

MONTEREY BAY MARSHES, MARINO, CALIF.
WEATHER - CLEAR COOL. WIND - MODERATE
9:30 AM - 10:30 AM
MET MR & MRS ANDERSON OF AUDUBON SOC.
WE BOTH WERE WORKING SAME MARSHES ABOUT AN ½ OF A MILE IN FROM BEACH.
BIRDS - COLYMBUS AURITUS (2), COLYMBUS NIGRICOLLIS (1), AECHMORPHORUS OCCIDENTALIS (3), PODILYMBUS PODICEPS (2), PELECANUS ERYTHRORHYNCHOS (8), PHALACROCORAX AURITUS (3), ARDEA HERODIAS (3), DAFILA ACUTA (15), FULICA AMERICANA (25), NUMENIUS AMERICANUS (1), CATOPTROPHORUS SEMIPALMATUS (20), TOTANUS MELANOLEUCUS (1), LIMOSA FEDOA (2), RECURVIROSTRA AMERICANA (1), PHALAROPUS FULICARIUS (5), LARUS OCCIDENTALIS (2)*, LARUS PHILADELPHIA (1),

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NOV 17 (CONT) STERNA FORSTERI (2), ANTHUS SPINOLETTA (1)

MT. DIABLO ST. PARK, 4 MILES FROM SUMMIT, CALIF. WEATHER - CLEAR, COOL. WIND - MODERATE. 1:30 P.M. - 3:00 PM
BIRDS - LOPHORTYX CALIFORNICA (10),* APHELOCOMA CALIFORNICA (5), BAEOLOPHUS INORNATUS (3), SALPINCTES OBSOLETUS (1)* - (PERHAPS THRYOMANES BEWICKI?), TOXOSTOMA REDIVIVUM (1)*, IXOREUS NAEVIUS (2)*, HYLOCICHLA GUTTATA (1), SIALIA MEXICANA (4)*, CORTHYLIO CALENDULA (1), JUNCO OREGANUS (4)*.

NOV 18 SUISUN BAY MARSHES & SHORE, PITTSBURG, CALIF. 2:00 P.M. - 6:00 P.M. WEATHER - CLEAR, COOL. WIND - MODERATE.
ON FOOT WORKING THE OPEN WATER AT THE PIERS & THEN THE CAT-TAIL MARSHES SOUTH OF TOWN. ONE OLD-TIMER SAID MUSKRAT HAD BEEN MOVING UP THE BAY FOR SEVERAL YEARS SINCE (HE SAID) THEY WERE RELEASED NEAR MOUTH OF SUISUN AT S. F. BAY. HE TRAPPED THEM BUT DIDN'T GIVE ANY NUMBERS OR SHOW ANY SKINS.
BIRDS - AECHMOPHORUS OCCIDENTALIS (1), NYCTICORAX NYCTICORAX (1) (HEARD CALLING JUST AFTER DARK), GALLINULA CHLOROPUS (4), FULICA AMERICANA (40), LARUS CALIFORNICUS (5), LARUS DELAWARENSIS (10), LARUS PHILADELPHIA (2)

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NOV. 18 (CONT.) TELMATODYTES PALUSTRIS (6), MIMUS POLYGLOTTOS (1), ANTHUS SPINOLETTA (15), LANIUS BOREALIS (1), DENDROICA CORONATA (2) (LOOKED MORE LIKE D. CORONATA THAN D. AUDUBONI BUT I COULD HAVE BEEN MISTAKEN), PASSER DOMESTICUS (15), EUPHAGUS CYANO-CEPHALUS (15)*, SPIZELLA PASSERINA (1), MELOSPIZA MELODIA (8),

NOV. 22 WOODS, ROADS & FIELDS AROUND ORINDA, CALIF. 2:00 P.M. - 5:30 P.M. WEATHER - CLEAR, COOL. WIND - STRONG

BIRDS - BUTEO BOREALIS (1), FALCO SPARVERIUS (2), LOPHORTYX CALIFORNICA (5), COLAPTES CAFER (2), APHELOCOMA CALIFORNICA (4), BAEOLOPHUS INORNATUS (2), PSALTRIPARUS MINIMUS (8), MIMUS POLYGLOTTOS (1), TURDUS MIGRATORIUS (10), PASSER DOMESTICUS (5), EUPHAGUS CYANO-CEPHALUS (5), CARPODACUS MEXICANUS (2)*, PIPILO FUSCUS (2), JUNCO OREGANUS (20), ZONOTRICHIA ALBICOLLIS (!) (2), PASSERELLA ILIACA (1), MELOSPIZA MELODIA (3).

NOV. 23 LAFAYETTE RESERVOIR, NEAR LAFAYETTE, CALIF. 10:00 AM - 5:00 P.M. WEATHER - CLEAR, COOL. WIND - STRONG. (LAKE - 1 MILE X ½ MILE)

WALKING AROUND LAKE (PRIVATE PROPERTY OF WATER CO.). SAW 4 DEER (ODOCOILEUS HEMIONUS COLUMBIANUS ?) & GOT A SNAP. DEER WERE FEEDING OR DRINKING AT LAKE'S BORDER.

BIRDS - COLYMBUS NIGRICOLLIS (4),

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NOV 23 (CONT.) PODILYMBUS PODICEPS (5), BRANTA CANADENSIS (11), ANAS PLATYRHYNCHOS (10), MARECA AMERICANA ? (3), NETTION CAROLINENSE (5), SPATULA CLYPEATA (15), NYROCA COLLARIS (30), NYROCA VALISINERIA (10), CHARITONETTA ALBEOLA (5), ERISMATURA JAMAICENSIS (30), BUTEO BOREALIS (2), FALCO SPARVERIUS (2), LOPHORTYX CALIFORNICA (25), FULICA AMERICANA (50), OXYECHUS VOCIFERUS (2), COLAPTES CAFER (12), BALANOSPHYRA FORMICIVORA (1)*, SPHYRAPICUS VARIUS (2)*, DRYOBATES NUTTALLI (2)*, SAYORNIS NIGRICANS (2), APHELOCOMA CALIFORNICA (8), CORVUS BRACHYRHYNCHOS (1), BAEOLOPHUS INORNATUS (5), PSALTRIPARUS MINIMUS (4), CHAMAEA FASCIATA (3)*, THRYOMANES BEWICKI (1), MIMUS POLYGLOTTOS (1), TURDUS MIGRATORIUS (15), SIALIA MEXICANA (3), CORTHYLIO CALENDULA (3), ANTHUS SPINOLETTA (2), BOMBYCILLA CEDRORUM (1), DENDROICA CORONATA (6), PASSER DOMESTICUS (3), STURNELLA NEGLECTA (1), EUPHAGUS CYANOCEPHALUS (50), CARPODACUS MEXICANUS (4), SPINUS PINUS (20)*, SPINUS PSALTRIA (3)*, PIPILO MACULATUS (2)*, PIPILO FUSCUS (4), JUNCO OREGANUS (40), ZONOTRICHIA CORONATA (8)*, ZONOTRICHIA ALBICOLLIS (3), PASSERELLA ILIACA (1), MELOSPIZA MELODIA (4).

C. ZIEGLER
1952
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DEC 13 U.S.S. GENERAL WM. MITCHELL, TWO DAYS OUT OF SAN FRANCISCO ENROUTE TO YOKOHAMA, JAPAN.

BIRD CAUGHT ON DECK & GIVEN TO ME BY E.M.F.N. TOM BRANDIS. THE MURRELET APPARENTLY COULDN'T GET A LONG ENOUGH RUNWAY ON THE DECK TO FLY OFF AGAIN.

- Z-11 SEX? FEET + LEGS LIGHT BLUE PICTURES TAKEN.

DIOMEDEA NIGRIPES (6 AD, ? 1 IMM) SEEN FIRST DAY OUT OF PORT ALSO LARUS ARGENTATUS (?) (2) - BLACK WING TIPS, LIGHT GRAY MANTLE, YELLOW BILL, ORANGE (?) FEET.

DEC 17 U.S.S. MITCHELL, 6 DAYS OUT OF SAN FRANCISCO. DIOMEDEA IMMUTABILIS (2 AD).

THESE BIRDS STAY QUITE A DISTANCE AWAY FROM THE SHIP NOT FOLLOWING CLOSE BEHIND OR BESIDE THE SHIP RIDING THE AIR CURRENTS AS THE DIOMEDEA NIGRIPES.

DIOMEDEA NIGRIPES SEEN EVERYDAY FOLLOWING SHIP, FROM 2 DAYS OUT TO A DAY BEFORE WE DOCKED IN JAPAN.

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1952

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DECEMBER (TOP PHOTO) DIOMEDEA NIGRIPES FROM TROOP TRANSPORT IN MID-PACIFIC.

BIRD (Z-11) TAKEN ON TRANSPORT DEC. 13, 1952.

END 1952

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1953

Ziegler, A. C.
Catalogue

nos. Z12-Z17 (birds)

no. Z5M (mammal)

A.C. ZIEGLER
1953

CATALOG (BIRDS)

MINO A.F.B., TOTTORI PREFECTURE, SO. HONSHU, JAPAN
MAY 1

LOWERS SU ATOM POWER Z-12 ♂ TURDUS SIBIRICUS LEGS DARK ORANGE

SAINOKAME, TOTTORI PREFECTURE, S. HONSHU, JAPAN
MAY 5

" Z-13 SEX? (FLEDGLING) PASSER MONTANUS (FROM MISS KONDO WHO [illegible])

NAKAHAMA, TOTTORI PREFECTURE, S. HONSHU, JAPAN
DEC. 6

" Z-14 ♀(?) PASSER MONTANUS

DEC. 13

" Z-15 ♂ IXOS AMAUROTIS (= MICROSCELIS AMAUROTIS)

DEC. 27

" Z-16 ♀ SPODIOSPAR CINERACEA (= STURNUS CINERACEUS)
LEGS + FEET ORANGE

DEC. 29

" Z-17 SEX? SPODIOSPAR CINERACEA LEGS + FEET ORANGE

END (BIRDS) 1953

C. ZIEGLER
1953

CATALOG (MAMMALS)

TOYOOKA (NEAR JOHNSON A.F.B.), HONSHU, JAPAN.

NOV. 29

ONLY SKULL & HEADSKIN ONLY

2-5M SEX? MUSTELA SIBERICA (?)

(APPROXIMATE MEASUREMENTS)
350-100- ?-?

END MAMMALS 1953

Ziegler, A. C.
1953
Journal

ACROSS THE ALMOST LAND-LOCKED
BAY FROM MIHO IS MATSUI - HOME OF
LAFACADIO HEARN UNIVERSITY.

C. ZIEGLER
1953
(TRANSCRIBED)

JOURNAL

JAN. MIHO A.F.B., TOTTORI PREFECTURE, HONSHU JAPAN.

WEATHER - COLD WITH FREQUENT SNOW. NO TRIPS TO THE FIELDS SURROUNDING BASE. ONE SHRIKE SEEN - PROBABLY LANIUS BUCEPHALUS TEMMINCK & SCHLEGEL (MOZU). CORVUS SP. SCARCE. (KURATSU BLACK-) SEVERAL HAWKS SEEN AT ONCE A COUPLE OF TIMES DURING MONTH PROBABLY MILVUS MIGRANS (TOE BEE). THE FORKED TAIL OF THIS SPECIES WAS NOT TOO NOTICEABLE IN FLIGHT AS THE BOOKS WOULD LEAD YOU TO BELIEVE. SINGLES & PAIRS SEEN FREQUENTLY.

MIHO A.F.B. IS APPROXIMATELY 1 MILE BY 1½ MILES. IT IS LOCATED ½ MILE FROM OSHINOZU (OR NAKAHAMA) VILLAGE & ABOUT 10 MILES N.W. OF YONAGO. ON ONE SIDE OF OSHINOZU IS A BEACH OF A SHELTERED BAY AND TO THE OTHER SIDE IS THE BASE & THEN A LARGE LAKE OR BAY REACHED BY WATER THRU A NARROW CHANNEL 5 MILES NORTH OF THE BASE AT SAKAI.

THE SURROUNDING LAND IS RICE, WHEAT & VEGETABLE FIELDS UNDER CONSTANT CULTIVATION. FROM YONAGO THE LAND GRADUALLY RISES TO THE PLATEAU SURROUNDING MT. DIASEN ABOUT 40 MILES SE OF MIHO ALTITUDE OF MIHO - 14'.

ACROSS THE ALMOST LAND-LOCKED BAY FROM MIHO IS MATSUI - HOME OF LAFACADIO HEARN UNIVERSITY.

ZIEGLER
1953
(TRANSCRIBED)

JOURNAL

JAN (CONT.) PASSER MONTANUS (SÚ ZÚME) COMMON EVERYWHERE, MUCH LIKE P. DOMESTICUS IN THE STATES.

MOTACILLA GRANDIS SHARPE (SÉ GÚRO SÉKIRI) SINGLE SEEN ONCE OR TWICE DURING MONTH ON THE BASE.

FEB. MIHO A.F.B., TOTTORI PREFECTURE, HONSHU, JAPAN
WEATHER - COLD, SOME SNOW BUT A FEW WARM DAYS.

PASSER MONTANUS COMMON, A FEW CORVUS SP.?, MOTACILLA GRANDIS FAIRLY COMMON AROUND BASE. 2-4 SINGING EACH DAY FROM TOPS OF BUILDINGS. SONG - LOUD + HARSH. MILVUS MIGRANS SEEN EVERY FEW DAYS, CIRCLING OVER THE RUNWAY OR PARADE GROUND.

MAR MIHO A.F.B., TOTTORI PREFECTURE, HONSHU, JAPAN. WEATHER - COLD, A LITTLE SNOW & SOME RAIN.

PASSER MONTANUS COMMON, MOTACILLA GRANDIS FAIRLY COMMON. 2 OR 3 SEEN ALMOST EVERY DAY. MILVUS MIGRANS SEEN FREQUENTLY, ALAUDA ARVENSIS L. COMMON ON LAWNS + FIELDS FROM THE MIDDLE OF MONTH ON, 3 OR 4 AT ONCE SEEN EVERY DAY. (HI BÁRI)

APR. MIHO A.F.B. TOTTORI PREFECTURE, HONSHU, JAPAN. WEATHER - STILL COLD, SOME RAIN.

PASSER MONTANUS + ALAUDA ARVENSIS

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APR. (CONT.) COMMON. MOTACILLA GRANDIS NOT SO COMMON AS FOR THE PAST TWO MONTHS, MILVUS MIGRANS ALSO SCARCE.

1 OR 2 CORVUS SP? SEEN.

APUS PACIFICUS LATHAM (AMÁT TSÚBAME) – FLOCK OF 20 OR MORE SEEN FLYING OVER BASE ON THE 25TH & ALSO ON THE 28TH. CALL – A BUZZY, DESCENDING "SHRENNNICH" ~~~.

HIRUNDO RUSTICA (TSÚBAME) SEEN OCCASIONALLY.

EGRETTA SP SEEN LAST DAY OF MONTH FLYING OVER AIR FIELD. (SHIRÁ - SAGI WHITE -)

MAY MIHO A.F.B., TOTTORI PREFECTURE, HONSHU JAPAN. WEATHER – COOL, VERY LITTLE RAIN, MANY CLEAR DAYS.

PASSER MONTANUS & ALAUDA ARVENSIS COMMON. HIRUNDO RUSTICA COMMON & NESTING. MANY HOUSES & SHOPS PUT WOODEN SHELVES UNDER THE EAVES 7'-8' OFF THE GROUND FOR THESE SWALLOWS TO BUILD NESTS ON. THE TSU BAME IS REGARDED AS A BIRD OF GOOD LUCK & NO ONE DISTURBS THEM.

MOTACILLA GRANDIS & MILVUS MIGRANS SCARCE. CORVUS SP.? ONLY 1 THIS MONTH.

ACROCEPHALUS ARUNDINACEUS (YOSHIKIRI) HEARD OR SEEN ALMOST EVERY DAY IN OSHINOZU (2 OR 3). APUS PACIFICUS SEEN 5 OR 6 TIMES MOSTLY SINGLES & DOUBLES.

A FEW SMALL SWALLOWS SIMILAR TO OUR OWN STELGIDOPTERYX RUFICOLLIS

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~~MAY~~. (CONT) SEEN OCCASIONALLY. OVER RICE FIELDS.
2023 SMALL UNIDENT. PLOVERS SEEN NEAR BARRACKS FOR 2 DAYS – APPARENTLY FEEDING ON THE GRAVEL ROADS. ~~SMALL~~ SEVERAL SANDPIPERS (UNIDENT.) ON BEACH.
SMALL FINCHES (FROM NOTES & CALLS) WITH WHITE OR YELLOW WING BAR SEEN FLYING OVER EVERY FEW DAYS. THESE WERE PROBABLY CHLORIS SINICA (KÓ·KA-HÁRA-HÍWA).

MAY1 – Z12 TURDUS SIBIRICUS (MA-ME-ZIRO) FOUND DEAD BY A/2c ARNOLD HOLLING. BIRD APPARENTLY FLEW INTO SIDE OF HANGER SINCE THE SKULL HAD A BLOODCLOT JUST UNDER THE SKIN. STOMACH EMPTY. ~~LEGS & FEET~~ DARK ORANGE.
ACROCEPHALUS ARUNDINACEUS SINGING IN GARDEN THICKETS & BAMBOO. SONG SLIGHTLY LIKE THAT OF MOCKING BIRD BUT A LITTLE HARSHER. SINGS ALSO AT NIGHT. THEY SEEM TO STICK PRETTY CLOSE TO THE THICKETS, SINGING FROM NEAR THE TOP OF BUSHES & BAMBOO. THEY ARE ALSO SLOW-MOVING BIRDS REMINDING ME OF VIREOS' ACTIONS.

MAY5 – Z-13 PASSER MONTANUS FLEDGLING OBTAINED FROM MISS KEIKO WATANABE WHO IN TURN GOT IT & A WEEK-OLD ONE (NOT COLLECTED) FROM SMALL BOYS IN SAINOKAMI VILLAGE. SEX UNDETERMINABLE.

MAY18 MATSUE (10 MI W. MIHO A.F.B.), TOTTORI KEN, HONSHU, JAPAN.

C. ZIEGLER
1953
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MAY 18 (CONT.) SAW MY FIRST PARUS VARIUS (YAMA-GARA) MT. - TIT IN A BIRD SHOP HERE. THE BIRD SHOPS CARRY MANY DIFFERENT SPECIES OF NATIVE AS WELL AS INTRODUCED BIRDS FOR SALE. PRICES WERE PRETTY CHEAP FOR MOST OF THE COMMONER SPECIES OR FOR THOSE WITH UNDISTINGUISHED BETTONS OR SONGS. SOME LESS THAN 50 CENTS.

MAY 19 OSHINOZU BEACH, TOTTORI KEN, HONSHU, JAPAN.
MILVUS MIGRANS SEEN HERE TODAY. THE DARK UNDERPARTS & NOTCHED TAIL WERE PLAINLY VISIBLE.
SPODIOPSAR CINERACEA TEMMINCK (OR STURNUS CINERACEUS) SEEN IN PINES ALONG BEACH. FLOCK OF 15+. ALSO SEEN FLYING OVERHEAD OCCASIONALLY. JAPANESE NAME - MU-KU-DORI
NYCTICORAX NYCTICORAX L. (GOI - SAGI - HERON) HEARD OVERHEAD ABOUT MIDNIGHT ON MAY 9 & MAY 12.

JUNE MIHO A.F.B. & VICINITY, TOTTORI PREFECTURE, HONSHU, JAPAN.
WEATHER - HUMID, RAIN MOST OF MONTH. (RAINY SEASON - JUNE & JULY)
A FEW UNIDENT PLOVERS & CORVUS SP? SEEN.
15 TERNS SEEN AT BEACH ON THE 20TH HAD BLACK CROWNS (SOME WITH WHITE FOREHEAD)
DEAD SEA BIRD FOUND WASHED UP ON BEACH ABOUT THE 15TH HAD 36" WING SPAN, 18" LENGTH. BLACK ABOVE, WHITE BELOW WITH

A.C. ZIEBLER
1953

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JUNE

HIRUNDO RUSTICA NEST ON HOUSE FRONTS YONAGO, TOTTORI PREFECTURE, HONSHU, JAPAN.

C. ZIEGLER
1953
(UNSCRIBED)

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JUNE (CONT) DARK GRAY FEET & LEGS. (PUFFINUS? SP.?)
TWO OR THREE MILVUS MIGRANS, FEW ALAUDA ARVENSIS SEEN DURING MONTH. VERY FEW APUS PACIFICUS - 15TH (4), 22ND (2) & 29TH (3).
HIRUNDO RUSTICA & PASSER MONTANUS BOTH COMMON & NESTING. THE SWALLOWS NEST A FEW FEET AWAY FROM TRADE & ACTIVITY IN THE STORES & HOUSE BUT SEEM NOT TO BE DISTURBED BY IT AT ALL. THEY SWOOP THRU THE NARROW STREETS EARLY IN THE MORNINGS HUNTING INSECTS.
SPODIOPSAR CINERACEA FAIRLY COMMON NEAR THE FIRST OF JUNE BUT BECAME SCARCER DURING THE REST OF MONTH.
CHLORIS SINICA (?) SEEN FLYING OVER 2 OR 3 TIMES. SAME FINCH-LIKE NOTES.
NYCTICORAX NYCTICORAX HEARD 3 NIGHTS DURING FIRST HALF OF MONTH. NO MOTACILLA GRANDIS ALL MONTH. THE ACROCEPHALUS ARUNDINACEUS HAD QUIETED DOWN SOMEWHAT BY THE 15TH.

JULY MIHO A.F.B. & VICINITY, TOTTORI KEN, HONSHU, JAPAN.
WEATHER - HOT WITH VERY LITTLE RAIN.
CORVUS SP., MILVUS MIGRANS, ALAUDA ARVENSIS, CHLORIS SINICA, SPODIOPSAR CINERACEUS ALL SCARCE NOW. NO
(MU-KU DORI)

ZIEGLER
1953
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JULY (CONT) MOTACILLA GRANDIS SEEN. PASSER MONTANUS COMMON. ACROCEPHALUS ARUNDINACEUS PRESENT BUT VERY SELDOM SINGING. UNIDENT. PLOVERS EACH TRIP TO BEACH ALSO UNIDENT. TERNS ON MOST OF TRIPS. ONE LARGE. SHORE BIRD SEEN (TRINGA INCANA ?)
NYCTICORAX NYCTICORAX HEARD AND/OR SEEN SEVERAL TIMES DURING MONTH. HIRUNDO RUSTICA FAIRLY COMMON ALL MONTH — NO OTHER SWALLOWS SEEN.

AUG. MIHO A.F.B. & VICINITY, TOTTORI KEN, HONSHU, JAPAN.
SLOW - CORVUS SP?, A FEW MILVUS MIGRANS & ALAUDA ARVENSIS. PASSER MONTANUS COMMON. HIRUNDO RUSTICA FAIRLY COMMON. CHLORIS SINICA SEEN OCCASIONALLY. NO MOTACILLA GRANDIS.

SEPT. MIHO A.F.B. & VICINITY, TOTTORI KEN, HONSHU, JAPAN.
WEATHER - A LITTLE RAINY
BIRDS ABOUT THE SAME AS AUGUST.
♂ MONTICOLA SOLITARIUS SEEN ABOUT THE 10TH AT FISHING VILLAGE OF SOZU ACROSS THE BAY INLET & HILLS FROM SAKAI. ABOUT 7 MI NW. OF BASE. QUITE A FEW MILVUS MIGRANS IN THE HILLS BETWEEN SAKAI & SOZU.

OCT MIHO A.F.B. & VICINITY, TOTTORI KEN, HONSHU, JAPAN.

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OCT (CONT.) WEATHER - COOL, A LITTLE RAIN.
VERY FEW HIRUNDO RUSTICA. CHLORIS SINICA SEEN EVERY TRIP TO BEACH. LANIUS BUCEPHALUS COMMON FROM THE 15TH MOTACILLA GRANDIS BACK AGAIN - 3 OR 4 SEEN EACH WEEK. UNIDENT. WRENS SEEN OCCASIONALLY IN RICE FIELDS. A SMALL OWL (NINOX SCUTULATA [AO-BAZU-KU] (?)) SEEN AT DUSK IN TOWN EARLY IN MONTH. MILVUS MIGRANS SEEN EVERY DAY. SPODIOPSAR CINERACEUS SEEN IN FLOCKS (10-20) FROM THE 15TH ON. PASSER MONTANUS STILL COMMON. EMBERIZA CIOIDES (HO-HO-GIRO) SEEN ABOUT THE 20TH + AGAIN THE 22ND THEN NO MORE NOTICED. ALCEDO ATTHIS SEEN AT SMALL TOWN CREEK IN ~~NA~~ KOSHINOZU ABOUT THE 25TH BRIGHT TORQUOISE BACK THAT ALMOST LIGHTS UP IN SUNLIGHT.

NOV. MIHO A.F.B. + VICINITY, TOTTORI KEN, HONSHU, JAPAN.
WEATHER - COOL
ALCEDO ATTHIS SEEN 2ND ON KOSHINOZU CREEK. CHLORIS SINICA COMMON.
SET OUT 5 MOUSE TRAPS WITH PEANUT BUTTER BAIT IN FLATS JUST INLAND FROM SAND BEACH ON THE 1ST. LEFT OUT 2:00 P.M. - 5:00 P.M. — NOTHING.
ALSO SET OUT THE 5 TRAPS SEVERAL TIMES IN WEED CLUMPS IN SMALL VEGETABLE GARDEN OVERNIGHT - STILL NOTHING. (IN KOSHINOZU)
MISS KEIKO WATANABE POINTED OUT A

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NOV. (CONT.) LARGE SHOREBIRD ON THE OSHINOZU BEACH ON THE 1ST, VANELLUS VANELLUS L. ( ) PROBABLY THO I DIDN'T GET A CLOSE LOOK AT IT. I DID SEE THE CREST & THE BLACK & WHITE WING PATTERN AS IT FLEW AWAY. ALSO ON THE 1ST, BUTEO BUTEO? YELLOW FEET & LEGS, "RED TAIL-LIKE" NECKLACE OF STREAKS ON LIGHT UNDER-PARTS. TYPICAL BUTEO SHAPE. UNIDENT. SPARROWS SIMILAR TO OUR SONG SP.'S SEEN IN THE BEACH PINES ON THE SAME DAY.

ANAS PLATYRHYNCHOS (5) (MAGA-MO PURE-DUCK), & ANAS POECILORHYNCHA (15) (KARU-GAMO DUCK) AT OSHINOZU BEACH ON THE 15TH. MOTACILLA GRANDIS, CORVUS SP.?, LANIUS BUCEPHALUS, & MILVUS MIGRANS COMMON.

NOV. 21 JOHNSON A.F.B. (APPROX. 20 MI W. OF TOKYO) TOKYO-TO (PREFECTURE), HONSHU, JAPAN.

A.M.-ON BASE - CYANOPICA CYANUS (12) (O-NAGA LONG-TAIL), MOTACILLA GRANDIS (4), PASSER MONTANUS (COMMON), CHLORIS SINICA (A FEW), & GARRULUS GLANDARIUS ? (2).

P.M.- WOODS & FIELDS NEAR BASE — AEGITHALOS CAUDATUS (30) (E-NAGA TAIL-LONG) TRAVELING IN FLOCKS MOVING THRU WOODS & KEEPING UP A CONSTANT CHATTER, PARUS MAJOR (10) (SHIJU-KARA TIT BIRD), IXOS AMAUROTIS (OR MICROSCELIS AMAUROTIS) (15) (HI-O-DORI), PHOENICURUS AUROREUS (♂ & ♀)

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NOV 21 (CONT) (JÓ-BI-TÁKI), CHLORIS SINICA (A FEW), CORVUS SP.? (A FEW), EMBERIZA CIOIDES (10) (HÓ-HÓ-GIRÓ), PASSER MONTANUS (FAIRLY COMMON), COLUMBA LIVIA (15) - DOMESTIC I SUPPOSE, (HATO), STREPTOPELIA ORIENTALIS (8) (KIJI - BATO TURTLE - DOVE) FEEDING IN FIELDS MUCH AS OUR ZENAIDURA MACROURA.

NOV 22 JOHNSON A.F.B., TOKYO-TO (PREFECTURE), HONSHU, JAPAN.

A.M. - ON BASE. WOODS NEAR SERVICE CLUBS + SWIMMING POOL. MOSTLY TALL PINES.

MOTACILLA GRANDIS (1), MOTACILLA CINEREA (7) (KI - SEKIRI YELLOW - WAGTAIL) - THE WAGTAILS WERE WALKING ABOUT THE POOL + ON THE TILE ROOF OF THE BATH HOUSE - SEEMED TO LIKE THIS LOCATION. MOTACILLA CINEREA IN WINTER PLUMAGE. - WHITE INSTEAD OF BLACK THROAT.

PASSER MONTANUS (FAIRLY COMMON), STREPTOPELIA ORIENTALIS (4), LANIUS BUCEPHALUS (2), PARUS MAJOR (2), CYANOPICA CYANUS (20) - TRAVELING IN FLOCKS THRU THE TREES, CALLING ALL THE TIME.

P.M. - WOODS + FIELDS E. OF BASE.

PARUS MAJOR (10), AEGITHALOS CAUDATUS (15) IN FLOCK, STREPTOPELIA ORIENTALIS (40), PASSER MONTANUS (FAIRLY COMMON), CORVUS SP.? (5), IXOS AMAUROTIS (5)

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NOV 22 (CONT) GARRULUS GLANDARIUS (1), EMBERIZA CIOIDES (15), 5 UNIDENT "SONG-TYPE" + 2 UNIDENT. "SWAMP. TYPE" SPARROWS. TURDUS NAUMANNI ? (2) (TSU-GU-ME), APUS PACIFICUS (2) - HIGH OVERHEAD. PHOENICURUS AUROREUS ? (9) + LANIUS BUCEPHALUS (6).

MET TWO JAPANESE HUNTING. ONE BY HIMSELF HAD ONE IXOS AMAUROTIS + ONE GARRULUS GLANDARIUS THAT HE HAD SHOT. HE SAID HE WOULD EAT THEM. THE OTHER FELLOW WAS USING A DOG TO FLUSH THE BIRDS + HAD SHOT ONE BAMBUSICOLA THORACICA (KO-JU-KEI - CHICKEN) + TWO STREPTOPELIA ORIENTALIS.

NOV. 26 JOHNSON A.F.B. (WOODS + FIELDS N. & W. OF BASE) TOKYO-TO (PREFECTURE) HONSHU, JAPAN. WEATHER - CLOUDY + COOL.

P.M. - PARUS VARIUS (20) (YAMA-GARA MT. - TIT) AEGITHALOS CAUDATUS (5), PARUS MAJOR (5) GARRULUS GLANDARIUS (10), CYANOPICA CYANUS (25), CORVUS SP. ? (15), MOTACILLA GRANDIS (4), MOTACILLA CINEREA (5), BAMBUSICOLA THORACICA (2), IXOS AMAUROTIS (10), EMBERIZA CIOIDES (20), 15 "SONG-TYPE" SPARROWS WITH WHITE OUTER TAIL FEATHERS. PROBABLY EMBERIZA SP. ?, ALCEDO ATTHIS (1), LANIUS BUCEPHALUS (5), PASSER MONTANUS (COMMON), PHOENICURUS AUROREUS (1), TURDUS NAUMANNI (2).

WEASEL OR FERRET FOUND ALONG R.R. TRACK RUN OVER BY TRAIN. TAIL ABOVE,

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NOV 26 (CONT.) WHITE BELOW. TAIL - 6", BODY - 10".

NOV 28 JOHNSON A.F.B. (WOODS & RIVERS W. OF BASE) TOKYO-TO (PREFECTURE), HONSHU, JAPAN.
WEATHER - CLEAR, COOL & WINDY.
CORVUS SP.? (5), GARRULUS GLANDARIUS (1), ALCEDO ATTHIS (2), MOTACILLA GRANDIS (12), MOTACILLA CINEREA (10) - THE WAGTAILS WERE NEARLY ALWAYS SEEN AROUND WATER - WALKING OVER THE ROCKS HUNTING FOOD. EMBERIZA CIOIDES (8), PASSER MONTANUS (FAIRLY COMMON), 20 "SONG-TYPE" SPARROWS, TURDUS NAUMANNI (5). A "SPOTTY-TYPE" SANDPIPER SEEN - BOBBING WALK. FLESH- OR YELLOW LEGS, GREY COLLAR, LIGHTER THROAT, STRIPE IN WING & A BILL AS LONG AS THE HEAD. NO LARGE SPOTS.
BAMBUSICOLA THORACICA (5), LANIUS BUCEPHALUS (3), IXOS AMAUROTIS (4).

NOV. 29 JOHNSON A.F.B. (WOODS & RIVERS W. & N. OF BASE NEAR TOYOOKA), TOKYO-TO (PREFECTURE), HONSHU, JAPAN.
- Z - 5M SKINNED OUT THE HEAD & SKULL OF THE MUSTELA SIBERICA? FOUND ON THE 26TH TAIL - 4"-5", HEAD & BODY - 10" LIGHT BROWN TAIL & BODY, WHITISH UNDER-PARTS. HEAD GREYISH-BROWN. SEX? (I-TAEHI).
PARUS VARIUS (10), PARUS MAJOR (2), 2 SPARROWS WITH BUFF "MUSTACHES", GREY NECKLACE, BUFFISH UNDERPARTS - POSSIBLY

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NOV. 29 (CONT.) ♀ EMBERIZA CIOIDES, CORVUS SP. (15), LANIUS BUCEPHALUS (2), TURDUS NAUMANNI (5), ALCEDO ATTHIS - DARN PRETTY BIRDS, 2 MORE OF THE "SPOTTY-TYPE" SANDPIPERS DESCRIBED ON THE 28TH. 10 "LONG-NECKED" PLOVERS PROBABLY CHARADRIUS DUBIUS MOTACILLA GRANDIS (8), EMBERIZA CIOIDES (3), 3 "SONG-TYPE" SPARROWS, PASSER MONTANUS (FAIRLY COMMON), IXOS AMAUROTIS (2), 1 GREBE (PIED-BILLED-TYPE) - PODICEPS RUFICOLLIS ?, PHOENICURUS AUROREUS (2), STREPTOPELIA ORIENTALIS (10), 1 UNIDENT. WREN.

♂-SEMI)
♀-CICADA

DEC 4 MOUNTAINS HALFWAY BETWEEN KYOTO & YONABO, TOTTORI KEN, HONSHU, JAPAN.

TWO CINCLUS PALLASII SEEN FROM TRAIN WINDOW IN MOUNTAIN STREAM. (KAWA - GARASU) RIVER - BIRD (CROW)

DEC 5 → MIHO A.F.B. & VICINITY, TOTTORI PREFECTURE, HONSHU, JAPAN.

NOT TOO MUCH BIRD ACTIVITY. A FEW FLOCKS OF DUCKS FLYING OVER MIHO BAY. LANIUS BUCEPHALUS (SCARCE), CORVUS SP. (COMMON), PASSER MONTANUS, MOTACILLA GRANDIS, SPODIOPSAR CINERACEA & MILVUS MIGRANS ALL FAIRLY COMMON. ANAS POECILORHYNCHA ? (25+) SEEN AT OSHINOZU BEACH 2 OR 3 TIMES.

DEC 6 Z14 ♀(?) PASSER MONTANUS SHOT IN NAKAHAMA BY JAPANESE BOYS. STOMACH CONTAINED 37 RAW RICE GRAINS (CROP & CROW)

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DEC 13 NAKAHAMA, TOTTORI PREFECTURE, HONSHU, JAPAN
— Z-15 IXOS AMAUROTIS ♂ SHOT & BROUGHT IN BY JAPANESE BOY. STOMACH CONTAINED SEVERAL LARGE BERRIES (COLW) THESE BIRDS ARE SAID TO PREFER THE CAMELIA BUSHES OR TREES, & BRANCHES WITH FLOWERS ARE SOMETIMES PUT UP OUTSIDE TO ATTRACT THE HI-ODORI. THE CAMELIA, AT LEAST THE RED ONE, IS KNOW HERE AS THE DEATHFLOWER OR PERHAPS AS VERY UNLUCKY BUT STILL SOME PEOPLE PUT THEM IN THEIR HOUSES. SOME OF THE PLANTS OUTSIDE ARE 15' TALL.

DEC 27 NAKAHAMA, TOTTORI KEN, HONSHU, JAPAN.
— Z-16 SPODIOPSAR CINERACEA ♀ SHOT BY JAPANESE BOY. STOMACH CONTENTS - SEVERAL LARGE BERRIES (COLW) FEET & LEGS ORANGE. BILL ORANGE WITH BLACK TIP & BASE OF LOWER MANDIBLE.

DEC 29 NAKAHAMA, TOTTORI KEN, HONSHU, JAPAN
— Z-17 SPODIOPSAR CINERACEA SEX ? SHOT BY JAPANESE BOY. STOMACH CONTENTS - SEVERAL LARGE BERRIES (COLW.) LEGS & FEET ORANGE. BILL ORANGE WITH BLACK TIP. THESE BIRDS SEEM TO STAY IN THE TOPS OF TALL PINES ON ~~A~~ FOX TEMPLE GROUNDS A HUNDRED YARDS OR SO FROM MY ROOM IN TOWN. THE FLOCK NUMBERS ABOUT 40 OR SO.

END 1953

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Catalogue

nos. Z18-Z65 (birds)

nos. Z6M-Z87M (mammals)

nos. 88-98 (birds and mammals)

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CATALOG (BIRDS)

MIHO A.F.B., TOTTORI PREFECTURE, S. HONSHU, JAPAN
JAN 9, 1954

QUERY
ATUN ROUGE

Z-18 ♂(?) PASSER MONTANUS (FROM A/1C JOHN E. SMITH)

NAKAHAMA, TOTTORI PREFECTURE, S. HONSHU, JAPAN
JAN. 12

" Z-19 ♂(?) COCCOTHRAUSTES COCCOTHRAUSTES FEET + LEGS FLESH

JAN. 30

" Z-20 ♀ PHOENICURUS AUROREUS FEET + LEGS BLACK

FEB. 3

" Z-21 ♀ TARSIGER CYANURUS FEET + LEGS BROWNISH

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CATALOGUE (BIRDS)

All following Z-22 Japanese mmans & ,ros to: Dr. Geo. Lowery La. State Univ.

Z-22 ♀? TURDUS NAUMANNI (TEMMINCK)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN FEB. 5, 1954.
LEGS LT. BR., FEET DK. BROWN.
TO - DR GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-23 ♀? SPHENURUS SIEBOLDII
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. FEB. 6, 1954.
LEGS & FEET - GRAYISH-RED.
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-24 ♀? TURDUS PALLIDUS (GMELIN) (HIROSHI NAGAMI KOSHINOZU, JAPAN)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. FEB. 13, 1954
LEGS & FEET LIGHT BROWN.
TO - DR. GEO. H. LOWERY, LA STATE UNIV., BATON ROUGE, LA.

Z-25 ♂ IXOS AMAUROTIS (HIROSHI NAGAMI KOSHINOZU, JAPAN)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. FEB. 13, 1954
TO - DR. GEO. H. LOWERY, LA. STATE UNIV, BATON ROUGE, LA.

Z-26 ♂ COCCOTHRAUSTES COCCOTHRAUSTES (HIROSHI NAGAMI KOSHINOZU, JAPAN)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. FEB. 13, 1954
TO - DR. GEO. H. LOWERY, LA. STATE UNIV, BATON ROUGE, LA.

Z-27 ♂ LANIUS BUCEPHALUS (TEMMINCK & SCHLEGEL)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. FEB. 14, 1954
FEET & LEGS DARK BROWN.
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-28 ♀ LANIUS BUCEPHALUS (T&S) (HIROSHI NAGAMI KOSHINOZU, JAPAN)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN FEB. 20, 1954
FEET & LEGS DARK BROWN
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

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1954

CATALOGUE (BIRDS)

Z-29 ♀ LANIUS BUCEPHALUS (T&S) (HIROSHI NAGAMI KOSHINOZU, JAPAN)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. FEB. 20, 1954.
FEET & LEGS DARK BROWN
TO - DR. GEO. H. LOWERY, LA. STATE UNIV, BATON ROUGE, LA.

Z-30 ♂? TURDUS PALLIDUS (GMELIN) (HIROSHI NAGAMI KOSHINOZU, JAPAN).
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN MAR. 6, 1954.
FEET & LEGS LIGHT BROWN
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-31 ♀ PASSER MONTANUS (HIROSHI NAGAMI KOSHINOZU, JAPAN)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN MAR. 6, 1954
FEET & LEGS BROWN
TO - DR. GEO. H. LOWERY, LA STATE UNIV., BATON ROUGE, LA.

Z-32 SEX? PASSER MONTANUS (HIROSHI NAGAMI KOSHINOZU, JAPAN)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN MAR. 11, 1954
FEET & LEGS BROWN
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-33 ♂ TURDUS PALLIDUS (GMELIN) (HIROSHI NAGAMI KOSHINOZU, JAPAN)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN MAR. 11, 1954
FEET & LEGS LIGHT BROWN.
TO - DR. GEO H. LOWERY, LA STATE UNIV., BATON ROUGE, LA.

Z-34 ♀ CHLORIS SINICA
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN MAR. 15, 1954
FEET & LEGS FLESH-COLORED.
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA

Z-35 ♂ (TES 5x6 mm) CHLORIS SINICA (HIROSHI NAGAMI KOSHINOZU, JAPAN)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN MAR. 17, 1954
FEET & LEGS FLESH-COLORED
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

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CATALOGUE (BIRDS)

Z-36 ♀ HORGITES CANTANS (HIROSHI NAGAMI KOSHINOZU, JAPAN)

NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. MAR. 25, 1954.

IRIS BROWNISH BLACK FEET & LEGS LT. BROWN
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-37 ♂ (TES - 4×6 MM) CHLORIS SINICA (HIROSHI NAGAMI KOSHINOZU, JAPAN)

NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN APR. 8, 1954

FEET & LEGS FLESH COLORED.

TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-38 ♀ (OVARY ENLARGED) CHLORIS SINICA (HIROSHI NAGAMI KOSHINOZU, JAPAN)

NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. APR. 8, 1954

FEET & LEGS FLESH COLORED.

TO - DR. GEO H. LOWERY, LA STATE UNIV., BATON ROUGE, LA.

Z-39 ♂ (TESTES 6×9, 5×6 MM) LANIUS BUCEPHALUS (T&S)

NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. APR. 11, 1954

FEET & LEGS DARK BROWN.

TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-40 ♂ (TESTES 1×1½ MM) FRINGILLA MONTIFRINGILLA (L.)

NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN APR. 11, 1954

FEET & LEGS BROWN.

TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-41 ♀ (OVARY NOT ENL.) URAGUS SIBIRICUS (HIROSHI NAGAMI KOSHINOZU, JAPAN)

NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN APR. 12, 1954

FEET & LEGS LIGHT BROWN.

TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-42 ♀ (OVARY NOT ENL.) TURDUS PALLIDUS (GMELIN) (HIROSHI NAGAMI KOSHINOZU, JAPAN)

NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. APR. 12, 1954

FEET & LEGS YELLOWISH

TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

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CATALOGUE (BIRDS)

Z-43 ♀ (OVARY ENLARGED) PASSER MONTANUS
NAKAHAMA, TOTTORI PREFECTURE, SO HONSHU, JAPAN APR. 14, 1954
FEET & LEGS LIGHT BROWN
TO - DR. GEO. H. LOWERY, LA. STATE UNIV, BATON ROUGE, LA.

Z-44 ♂ (TES-3X8MM) CAPELLA
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN APR. 15, 1954.
FEET & LEGS BROWN
TO - DR. GEO. H. LOWERY, LA STATE UNIV., BATON ROUGE, LA.

Z-45 ♂ (TESTES 4X9MM) CAPELLA (YOSHINORI MATSUI AGARIMICHI, JAPAN)
AGARIMICHI, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. APR. 17, 1954
FEET & LEGS BROWN WITH GREENISH TINT.
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-46 ♀ (OVARY SL. ENL.) TURDUS NAUMANNI (YOSHINORI MATSUI AGARIMICHI, JAPAN)
AGARIMICHI, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. APR. 17, 1954
FEET & LEGS BROWN.
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-47 ♀ (OVARY NOT ENL.) TURDUS NAUMANNI (YOSHINORI MATSUI AGARI MICHI, JAPAN)
AGARIMICHI, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. APR. 17, 1954
FEET & LEGS BROWN.
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-48 ♂ (TESTES 1X2MM) ANTHUS SPINOLETTA (YOSHINORI MATSUI AGARIMICHI, JAPAN)
AGARIMICHI, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. APR. 17, 1954
FEET & LEGS LIGHT BROWN.
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-49 ♂ (TESTES 6X7, 6X9MM) LANIUS BUCEPHALUS (T&S)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. APR 18, 1954
FEET & LEGS DARK BROWN
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

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CATALOGUE (BIRDS)

Z-50 ♂ (TESTES 2½X3½MM) TURDUS CARDIS (KATSUZI KAGENO AMARIKO, JAPAN)
AMARIKO, TOTTORI PREFECTURE, SO. HONSHU, JAPAN APR. 19, 1954
FEET & LEGS ORANGE TAN.
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-51 ♂ (TESTES 1½X2MM) TARSIGER CYANURUS (KATSUZI KAGENO AMARIKO, JAPAN)
AMARIKO, TOTTORI PREFECTURE, SO. HONSHU, JAPAN APR. 19, 1954.
FEET & LEGS DARK BROWN
TO - DR. GEO. H. LOWERY, LA STATE UNIV., BATON ROUGE, LA.

Z-52 ♂ (TESTES 3½X5MM) MUSCICAPULA NARCISSINA (HIROSHI NAGAMI KOSHINOZU, JAPAN)
NAKAHAMA, TOTTORI PREFECTURE, SO HONSHU, JAPAN APR. 22, 1954
FEET & LEGS DARK BROWN (SKIN WASHED)
TO - DR. GEO. H. LOWERY, LA STATE UNIV., BATON ROUGE, LA.

Z-53 ♀ (OVARY NOT ENL) EMBERIZA CIOIDES (HIROSHI NAGAMI KOSHINOZU, JAPAN)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN APR. 24, 1954
FEET & LEGS FLESH COLORED.
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-54 ♂ (TESTES ½X2MM) COCCOTHRAUSTES COCCOTHRAUSTES (HIROSHI NAGAMI KOSHINOZU, JAPAN)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. APR. 25, 1954
FEET & LEGS FLESH COLORED
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-55 ♀ (OVARY SL. ENL.) TURDIS CARDIS (HIROSHI NAGAMI KOSHINOZU, JAPAN)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. APR. 27, 1954
FEET & LEGS FLESH COLORED
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-56 ♂ (TESTES 3X3,4X5MM) BOMBYCILLA JAPONICA (SIEBOLD) (HIROSHI NAGAMI KOSHINOZU, JAPAN)
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN MAY 2, 1954
FEET & LEGS BLACK
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z. ZIEGLER
1954

CATALOGUE (BIRDS)

Z-57 ♂ (TESTES 3x5, 3x8mm) NINOX SCUTULATA (HIROSHI NAGAMI KOSHINOZU, JAPAN)

NAWAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN MAY 3, 1954

FEET YELLOW. IRIS - YELLOW

TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-58 ♀ (OVARY ENLARGED) ACROCEPHALUS ARUNDINACEUS (HIROSHI NAGAMI KOSHINOZU, JAPAN)

NAWAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN MAY 10, 1954

FEET & LEGS BROWN.

TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-59 ♂ (TESTES ") EMPIDONAX

1 MILE W. OF SAN BRUNO, SAN MATEO CO, CALIF. SEPT 27, 1954

TO - DR. ER HALL, U. KANSAS

Z-60 ♂ (TESTES ") JUNCO OREGANUS

1 MILE W. OF SAN BRUNO, SAN MATEO CO, CALIF. OCT. 3, 1954

IRIS DARK BROWN PARASITES + STOMACH CONTS TO U. CAL, BERKELEY, CALIF.

TO - DR. ER HALL U. K.

Z-61 ♂ (TESTES ") ZONOTRICHIA LEUCOPHRYS

1 MILE W. OF SAN BRUNO, SAN MATEO CO, CALIF. OCT 14, 1954
STOMACH CONTENTS TO U.C., BERKELEY, CALIF.

TO - DR. ER. HALL U.K.

Z-62 ♂ (TESTES ") HYLOCICHLA USTULATA

1 MILE W. OF SAN BRUNO, SAN MATEO CO, CALIF. OCT 15, 1954

IRIS BLACK. FEET + LEGS LIGHT BROWN.

TO - DR. E.R. HALL U.K.

Z-63 ♂ (TESTES ") ZONOTRICHIA CORONATA

1 MILE W. OF SAN BRUNO, SAN MATEO CO, CALIF. OCT 18, 1954

IRIS DARK BROWN, FEET + LEGS LIGHT BROWN. STOMACH CONTS + PARASITES TO U.C. BERKELEY, CALIF.

TO - DR. ER. HALL U.K.

C. ZIEGLER
1954

CATALOGUE (BIRDS)

Z-64 ♂ (TESTES ●●) CARPODACUS MEXICANUS

1 MILE W. OF SAN BRUNO, SAN MATEO CO, CALIF. OCT. 31, 1954.

IRIS DARK BROWN. FEET + LEGS DARK BROWN.
STOMACH CONTENTS TO U.C., BERKELEY, CALIF.

TO - DR. ER HALL, U. KANSAS

Z-65 ♀ (OVARY VERY SMALL) DENDROICA AUDUBONI

SAN BRUNO, SAN MATEO CO, CALIF. NOV. 26, 1954.

IRIS BLACK. FEET + LEGS BLACKISH. PARASITE TO U.C. BERKELEY, CALIF.

TO - DR. ER HALL, U. KANSAS

END "Z" NUMBERS FOR BIRDS

(SEE ADDITIONAL 1954 BIRDS FURTHER ON NEAR END OF 1954 CATALOG)

C. ZIEGLER
1954

CATALOG (MAMMALS)

NAKAHAMA, TOTTORI PREFECTURE, S. HONSHU, JAPAN

FEB. 26

SNORY
W ROUND

Z-6m ♂ (TESTES 4x7mm) MUS MUSCULUS 162-76-?-?

MAR. 9

(FROM HIROSHI NAGAMI OF KOSHINOZU)

Z-7m ♀ (6 EMB'S) RATTUS 292-140-33-?

TAMATSUKURI, SHIMANI PREFECTURE, S. HONSHU, JAPAN

APR. 16

Z-8m ♂ (TESTES 2x2½mm) "BAT" NO MEASUREMENTS

SEE NEXT PAGE

ZIEGLER
1954

CATALOGUE (MAMMALS)

Z-9m ♂ (TESTES 9X17MM) MOLE
NAKAHAMA, TOTTORI PREFECTURE, SO. HONSHU, JAPAN. APR. 16, 1954
162-21-23-?
TO - DR. GEO. H. LOWERY, LA. STATE UNIV, BATON ROUGE, LA.

Z-10m ♀ (NO EMBS) MICROTUS CALIFORNICUS
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF. AUG. 28, 1954.
150-46-20-? PARASITES TO U.C., BERKELEY, CALIF.
TO - E.R. HAHN U.K.

Z-11m ♂ (TESTES 2X3MM) REITHRODONTOMYS MEGALOTIS
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF. AUG 28, 1954
136-80-17-?
TO - "

Z-12m ♂ (TESTES 3X4½MM) MUS MUSCULUS
SAN BRUNO, INSIDE HOUSE SAN MATEO CO, CALIF. AUG 30, 1954
146-74-17-?
TO - "

Z-13m ♀ (3 EMBS OR SCARS) MICROTUS CALIFORNICUS
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF. SEPT. 4, 1954
145-49-18-?
TO - MRS. NANCY SHEPARD, % WM. MEYERS, ATHERTON, CALIF.

Z-14m ♂ (TESTES 5X9MM) PEROMYSCUS TRUEI
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF. SEPT 4, 1954
207-120-22-?
TO - E.R. HAHN U.K.

Z-15m ♂ (TESTES 3½X8MM) PEROMYSCUS TRUEI
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF SEPT. 4, 1954
186-95-22-?
TO - "

ZIEGLER
1954

CATALOGUE (MAMMALS)

Z-16m ♂ (TESTIS) RETHRODONTOMYS MEGALOTIS
1 MILE W. OF SAN BRUNO, SAN MATEO CO, CALIF. SEPT 4, 1954
112 - 63 - 15 - ? PARASITES TO U.C., BERKELEY, CALIF.
TO - E. R. Hall U. K.

Z-17m ♀ (6 EMBS) MUS MUSCULUS
SAN BRUNO, SAN MATEO CO, CALIF. SEPT 5, 1954
150 - 78 - 18 - ?
TO - "

Z-18m ♀ (NO EMBS) MUS MUSCULUS
1 MILE E. OF SAN BRUNO (HAYFIELD), SAN MATEO CO, CALIF. SEPT 5, 1954
137 - 73 - 18 - ?
TO - "

Z-19m ♂ (TESTES 00) MICROTUS CALIFORNICUS
1 MILE E. OF SAN BRUNO (HAYFIELD), SAN MATEO CO, CALIF. SEPT 5, 1954
145 - 42 - 21 - ? PARASITES TO U.C., BERKELEY, CALIF.
TO - "

Z-20m ♂ (TESTES 00) MICROTUS CALIFORNICUS
1 MILE E. OF SAN BRUNO (HAYFIELD), SAN MATEO CO, CALIF. SEPT 5, 1954
150 - 50 - 18 - ?
TO - "

Z-21m ♀ (NO EMBS) MICROTUS CALIFORNICUS
1 MILE E. OF SAN BRUNO (HAYFIELD), SAN MATEO CO, CALIF. SEPT 5, 1954
117 - 40 - 19 - ?
TO - "

Z-22m ♀ (2 EMBS) PEROMYSCUS CALIFORNICUS
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF. SEPT 6, 1954
229 - 140 - 26 - ? EMBRYOS + PARASITES TO U.C., BERKELEY, CALIF.
TO - "

ZIEGLER
1954

CATALOGUE (MAMMALS)

Z-23m ♂ (TESTES 2½x4mm) MICROTUS CALIFORNICUS
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF. SEPT 12, 1954.
142-46-21-?
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-24m ♀ (2 EMBS 4 SCARS) PEROMYSCUS CALIFORNICUS
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF. SEPT. 12, 1954.
246-135-26-? EMBRYOS & PARASITES TO U.C., BERKELEY, CALIF.
TO - E.R. Hall V.U.

Z-25m ♂ (TESTES 3x6mm) PEROMYSCUS CALIFORNICUS
1 MILE W. OF SAN BRUNO, SAN MATEO CO, CALIF. SEPT. 13, 1954
230-133-26-?
TO - MRS NANCY SHEPARD, % WM. MEYERS, ATHERTON, CALIF.

Z-26m ♂ (TESTES 2x3mm) REITHRODONTOMYS MEGALOTIS
1 MILE W. OF SAN BRUNO, SAN MATEO CO, CALIF. SEPT. 13, 1954
135-78-17-?
TO - E.R. Hall V.U.

Z-27m ♂ (TESTES 5x8½mm) PEROMYSCUS TRUEI
1 MILE W. OF SAN BRUNO, SAN MATEO CO, CALIF. SEPT. 13, 1954
193-114-21-?
TO - E.R. Hall V.U.

Z-28m ♀ (NO EMBS) REITHRODONTOMYS MEGALOTIS
1 MILE W. OF SAN BRUNO, SAN MATEO CO, CALIF. SEPT. 18, 1954
115-71-16-?
TO - E.R. Hall V.U.

Z-29m ♀ (NO EMBS) REITHRODONTOMYS MEGALOTIS
1 MILE W. OF SAN BRUNO, SAN MATEO CO, CALIF. SEPT. 19, 1954
130-72-16-?
TO - MRS. NANCY SHEPARD, % WM MEYERS, ATHERTON, CALIF.

ZIEGLER
1954

CATALOGUE (MAMMALS)

Z-30m ♀ 1mm (NO EMBS) PEROMYSCUS TRUEI
SANBRUNO CITY PARK, SAN MATEO CO, CALIF. SEPT. 20, 1954.
150-84-22-?
TO - E.R. Hall U.K.

Z-31m ♀ (NO EMBS) PEROMYSCUS CALIFORNICUS
1 MI W. SANBRUNO, SAN MATEO CO, CALIF. SEPT. 20, 1954.
206-121-24-? PARASITES TO U.C., BERKELEY, CALIF.
TO - "

Z-32m ♀ (NO EMBS) PEROMYSCUS CALIFORNICUS
1 MI W. SANBRUNO, SAN MATEO CO, CALIF. SEPT. 20, 1954
220-133-25-? PARASITES TO U.C., BERKELEY, CALIF.
TO - "

Z-33m ♂ (TESTES 6X12MM) PEROMYSCUS CALIFORNICUS
1 MI W. SAN BRUNO, SAN MATEO CO, CALIF. SEPT. 26, 1954
241-127-25-? PARASITES TO U.C. BERKELEY, CALIF.
TO - "

Z-34m ♂ (TESTES 5X10MM) PEROMYSCUS CALIFORNICUS
1 MI W. SAN BRUNO, SAN MATEO CO, CALIF. SEPT. 26, 1954
222-128-25-?
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-35m ♀ (3 EMBS) PEROMYSCUS CALIFORNICUS
1 MI W. SAN BRUNO, SAN MATEO CO, CALIF. SEPT. 27, 1954
261-156-25-? EMBRYOS & PARASITES TO U.C. BERKELEY, CALIF.
TO - E.R. Hall U.K.

Z-36m ♂ (TESTES 3½X7MM) NEOTOMA FUSCIPES
1 MI W. SAN BRUNO, SAN MATEO CO, CALIF. SEPT. 27, 1954
395-207-43-? PARASITES TO U.C. BERKELEY, CALIF.
TO - "

ZIEGLER
1954

CATALOGUE (MAMMALS)

Z-37M ♀ (1 EMB 4 SCARS) PEROMYSCUS CALIFORNICUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. SEPT. 27, 1954
224-134-24-?
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-38M ♂ (TESTES 2X2½ MM) REITHRODONTOMYS MEGALOTIS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. OCT. 3, 1954.
127-73-17-?
TO - E. R. HALL U.K.

Z-39M ♀ (NO EMBS) PEROMYSCUS CALIFORNICUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. OCT. 3, 1954
192-109-25-? PARASITES TO U.C., BERKELEY, CALIF.
TO - "

Z-40M ♂ (TESTES 3X6 MM) MUS MUSCULUS
SAN BRUNO (HOUSE), SAN MATEO CO, CALIF. OCT. 4, 1954
157-86-18-?
TO - MRS. NANCY SHEPARD, % WM. MEYERS, ATHERTON, CALIF.

Z-41M ♂ (TESTES 5X9 MM) PEROMYSCUS CALIFORNICUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. OCT. 4, 1954
240-137-25-? PARASITES TO U.C., BERKELEY, CALIF.
TO - E. R. HALL U.K.

Z-42M ♀ (NO EMBS) THOMOMYS BOTTAE (KEN MAFFEI MILLBRAE, CALIF.)
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF. OCT 7, 1954
203-72-28-?
TO - MRS. NANCY SHEPARD, % WM. MEYERS, ATHERTON, CALIF.

Z-43M ♂ (TESTES 3X5½ MM) THOMOMYS BOTTAE (KEN MAFFEI MILLBRAE, CALIF.)
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF. OCT. 7, 1954
208-65-31-? PARASITES TO U.C., BERKELEY, CALIF.
TO - E. R. HALL U.K.

ZIEGLER
1954

CATALOGUE (MAMMALS)

Z-44m ♀ (NO EMBS) THOMOMYS BOTTAE (KEN MAFFEI MILLBRAE, CALIF.)
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF. OCT. 9, 1954
200-71-27-?
TO - DR. GEO. H. LOWERY, LA. STATE UNIV, BATON ROUGE, LA.

Z-45m ♀ (NO EMBS) THOMOMYS BOTTAE (KEN MAFFEI MILLBRAE, CALIF)
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF. OCT 9, 1954
192-70-27-?
TO - DR. JOSEPH C. HOWELL, UNIV. OF TENN., KNOXVILLE, TENN.

Z-46m ♀ (2 EMBS) PEROMYSCUS CALIFORNICUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. OCT 10, 1954
228-135-26-? EMBRYOS + PARASITES TO U.C., BERKELEY, CALIF.
TO - E.R. Hahn V.K.

Z-47m ♂ (TESTES 4X7MM) PEROMYSCUS CALIFORNICUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. OCT. 10, 1954
221-138-25-? PARASITES TO U.C., BERKELEY, CALIF.
TO - "

Z-48m ♀ (NO EMBS) REITHRODONTOMYS MEGALOTIS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. OCT 11, 1954
130-75-16-?
TO - "

Z-49m ♀ (NO EMBS) REITHRODONTOMYS MEGALOTIS OCT 11, 1954
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF.
111-63-16-?
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

Z-50m ♂ (TESTES 7X12MM) PEROMYSCUS CALIFORNICUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. OCT 14, 1954
243-146-25½-? PARASITES TO U.C., BERKELEY, CALIF.
TO - E.R. Hahn V.K.

ZIEGLER
1954

CATALOGUE (MAMMALS)

Z-51m ♂ (TESTES 1½X3MM) REITHRODONTOMYS MEGALOTIS
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF. OCT 17, 1954
128-74-16-?
TO- E. R. Hahn V. K.

Z-52m ♂ (TESTES 2X3 MM) SOREX TROWBRIDGEI
1 MI W. SAN BRUNO (DRY GULLY FLOOR), SAN MATEO CO, CALIF. OCT 17, 1954
102-52-15-? PARASITES TO U.C., BERKELEY, CALIF.
TO- "

Z-53m ♂ (TESTES 4X7½MM) PEROMYSCUS CALIFORNICUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. OCT, 17, 1954
222-140-25-? PARASITES TO U.C., BERKELEY, CALIF.
TO- "

Z-54m ♂ (TESTES 6X9MM) PEROMYSCUS CALIFORNICUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. OCT 17, 1954
242-145-25-?
TO- DR. JOSEPH C. HOWELL, UNIV. OF TENN., KNOXVILLE, TENN.

Z-55m ♂ (TESTES 6½X11MM) PEROMYSCUS CALIFORNICUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. OCT 17, 1954
236-143-26-?
TO- E. R. Hahn V. K.

Z-56m ♂ (TESTES 3X5MM) REITHRODONTOMYS MEGALOTIS
1 MI. W. SAN BRUNO, SAN MATEO CO., CALIF. OCT 23, 1954
141-87-17-?
TO- "

Z-57m ♀ (4 EMBS OR SCARS) PEROMYSCUS CALIFORNICUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. OCT. 24, 1954
226-135-25-?
TO- DR. JOSEPH C. HOWELL, UNIV. OF TENN., KNOXVILLE, TENN.

ZIEGLER
1954

CATALOGUE (MAMMALS)

Z-58m ♀ (5 SCARS) NEOTOMA FUSCIPES
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. OCT. 24, 1954
373-191-40-?
TO - E.R. Hall V.K.

Z-59m ♀ (9 FRESH 7 OLD(?) SCARS) PEROMYSCUS MANICULATUS
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF. OCT 24, 1954
172-89-20-? UTERUS TO U.C., BERKELEY, CALIF.
TO - "

Z-60m ♀ (NO EMBS) SOREX TROWBRIDGEI
1 MI. W. SAN BRUNO (BRUSHY HILLSIDE), SAN MATEO CO, CALIF. OCT. 25, 1954
105-50-15-? PARASITES TO U.C., BERKELEY, CALIF.
TO - "

Z-61m ♀ (3 SCARS) REITHRODONTOMYS MEGALOTIS
1 MI W. SAN BRUNO, SAN MATEO CO, CALIF. OCT. 25, 1954
138-78-17-?
TO - DR. JOSEPH C. HOWELL, UNIV. OF TENN., KNOXVILLE, TENN.

Z-62m ♀ (6 [3 OLD] SCARS) PEROMYSCUS CALIFORNICUS
1 MI W. SAN BRUNO, SAN MATEO CO, CALIF. OCT. 25, 1954
253-151-27-? PARASITES TO U.C., BERKELEY, CALIF.
TO - E.R. Hall V.K.

Z-63m ♂ (TESTES 4X1½ MM) SCAPANUS LATIMANUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. OCT 31, 1954
172-45-20½-? PARASITES TO U.C., BERKELEY, CALIF.
TO - "

Z-64m ♂ (TESTES 3X4MM) MICROTUS CALIFORNICUS
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF. NOV. 1, 1954
159-55-22-? PARASITES TO U.C., BERKELEY, CALIF.
TO - "

ZIEGLER
1954

CATALOGUE (MAMMALS)

Z-65m ♂ (TESTES 3X5MM) MICROTUS CALIFORNICUS
1 MI. W. MILLBRAE, SAN MATEO CO, CALIF. NOV. 7, 1954
149-52-20-?
TO - DR. JOSEPH C. HOWELL, UNIV. OF TENN., KNOXVILLE, TENN.

Z-66m ♂ (TESTES 3½X7MM) PEROMYSCUS TRUEI
1 MI. W. MILLBRAE, SAN MATEO CO, CALIF. NOV. 7, 1954
171-91-21½-?
TO - E. R. HALL V. V.

Z-67m ♀ (4 EMBS) PEROMYSCUS TRUEI
1 MI. W. MILLBRAE, SAN MATEO CO, CALIF. NOV. 7, 1954
187-110-22-? PARASITES + EMBRYOS TO U.C., BERKELEY, CALIF.
TO - "

Z-68m ♂ (TESTES 00) REITHRODONTOMYS MEGALOTIS
1 MI. E. SAN BRUNO, SAN MATEO CO, CALIF. NOV. 8, 1954
127-76-17-?
TO - "

Z-69m ♂ (TESTES 3X6MM) MUS MUSCULUS
1 MI. E. SAN BRUNO, SAN MATEO CO, CALIF. NOV. 8, 1954
142-81-19-? PARASITES TO U.C., BERKELEY, CALIF.
TO - "

Z-70m ♀ (SCAR) MUS MUSCULUS
1 MI. E. SAN BRUNO, SAN MATEO CO, CALIF. NOV. 8, 1954
109-36-17-? (PART OF TAIL MISSING) PARASITES + CYST TO U.C., BERKELEY, CALIF.
TO - "

Z-71m ♀ (NO EMBS) PEROMYSCUS CALIFORNICUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. NOV. 14, 1954
222-135-27-? PARASITES TO U.C., BERKELEY, CALIF.
TO - "

ZIEGLER
1954

CATALOGUE (MAMMALS)

Z-72m ♂ (TESTES 5x8mm) PEROMYSCUS MANICULATUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. NOV. 14, 1954
155 - 80 - 21½ - ? (TIP OF TAIL MISSING)
TO - E.R. Hall V.V.

Z-73m ♀ (NO EMBS) MUS MUSCULUS
E. SAN BRUNO (PASTURE), SAN MATEO CO, CALIF. NOV. 15, 1954
137 - 74 - 17½ - ?
TO - "

Z-74m ♂ (TESTES 2x5mm) MUS MUSCULUS
E. SAN BRUNO (PASTURE), SAN MATEO CO, CALIF. NOV. 15, 1954
139 - 74 - 18 - ? PARASITES TO U.C., BERKELEY, CALIF.
TO - "

Z-75m ♂ (TESTES 1½x4mm) MUS MUSCULUS
E. SAN BRUNO (PASTURE), SAN MATEO CO, CALIF. NOV. 15, 1954
134 - 75 - 18 - ? PARASITES TO U.C., BERKELEY, CALIF.
TO - "

Z-76m ♂ IMM. (TESTES 00) PEROMYSCUS TRUEI
1 MI. W. MILLBRAE, SAN MATEO CO, CALIF. NOV. 21, 1954
159 - 89 - 22½ - 20 PARASITES TO U.C., BERKELEY, CALIF.
TO - "

Z-77m ♂ (TESTES 3x5½ mm) PEROMYSCUS TRUEI
1 MI. W. MILLBRAE, SAN MATEO CO, CALIF. NOV. 21, 1954
172 - 94 - 22 - 20
TO - "

Z-78m ♀ (NO EMBS) REITHRODONTOMYS MEGALOTIS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. NOV. 22, 1954
120 - 70 - 16½ - 13 PARASITES TO U.C., BERKELEY, CALIF.
TO - "

ZIEGLER
1954

CATALOGUE (MAMMALS)

Z-79M ♀ (2 EMBS) MICROTUS CALIFORNICUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. NOV. 22, 1954
140-47-20-13 PARASITES & CYST TO U.C., BERKELEY, CALIF.
TO - E. R. HALL U.K.

Z-80M ♂ (TESTES 3X5MM) MICROTUS CALIFORNICUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. NOV. 22, 1954
148-53-20-13 PARASITES TO U.C., BERKELEY, CALIF.
TO - "

Z-81M ♂ (TESTES 4X9MM) PEROMYSCUS MANICULATUS
SAN BRUNO CITY PARK, SAN MATEO CO, CALIF. NOV. 29, 1954
147-72-19½-16
TO - "

Z-82M ♀ (5 SCARS) PEROMYSCUS MANICULATUS
1 MI. W. SAN BRUNO, SAN MATEO CO, CALIF. NOV. 29, 1954
160-82-20-15½ PARASITES TO U.C., BERKELEY, CALIF.
TO - "

Z-83M ♂ (TESTES 4X7MM) PEROMYSCUS MANICULATUS
1 MI. W. MILLBRAE, SAN MATEO CO, CALIF. DEC. 5, 1954
152-75-21-15 PARASITES TO U.C., BERKELEY, CALIF.
TO - "

Z-84M ♀ (NO EMBS) IMM. PEROMYSCUS TRUEI
1 MI. W. MILLBRAE, SAN MATEO CO, CALIF. DEC. 5, 1954
164-88-22½-20 PARASITE TO U.C., BERKELEY, CALIF.
TO - "

Z-85M ♂ (TESTES 3X5MM) IMM. PEROMYSCUS TRUEI
1 MI. W. MILLBRAE, SAN MATEO CO, CALIF. DEC. 5, 1954
173-92-22½-21 PARASITE TO U.C., BERKELEY, CALIF.
TO - "

ZIEGLER
1954

CATALOGUE

Z-86m ♀ (NO EMBS) MUS MUSCULUS
SAN BRUNO CITY PARK, SAN MATEO CO., CALIF. DEC. 6, 1954
132-73-17-12 PARASITES TO U.C., BERKELEY, CALIF.
TO - E.R. HAHN U.K.

Z-87m ♂ (TESTES 00) REITHRODONTOMYS MEGALOTIS
1 MI. W. SAN BRUNO, SAN MATEO CO., CALIF. DEC. 6, 1954
132-72-15-14
TO - "

HERE ON MAMMALS, ETC. HAVE SAME SET OF NUMBERS

88 ♂ (TESTES ½X3MM) REITHRODONTOMYS
2MI N.E. SAN BRUNO (SALTMARSH), SAN MATEO CO., CALIF. DEC. 12, 1954
130-72-16-13
TO - DR. GEO. H. LOWERY, MUS. ZOO., LA. STATE UNIV., BATON ROUGE, LA.

89 ♂ (TESTES 3X5MM) MICROTUS
2MI. N.E. SAN BRUNO (SALTMARSH), SAN MATEO CO., CALIF. DEC. 12, 1954
146-49-21-13
TO - DR. GEO. H. LOWERY, MUS. ZOO., LA. STATE UNIV., BATON ROUGE, LA.

90 ♀ (OVARY NOT ENL) CARPODACUS
E. SAN BRUNO, SAN MATEO CO., CALIF. DEC. 13, 1954
IRIS DARK BROWN. FEET & LEGS DARK BROWN
TO - DR. GEO. H. LOWERY, MUS. ZOO., LA. STATE UNIV., BATON ROUGE, LA.

91 ♂ (TESTES ••) CARPODACUS
E. SAN BRUNO, SAN MATEO CO., CALIF. DEC. 13, 1954
IRIS DARK BROWN. FEET & LEGS DARK BROWN
TO - DR. GEO. H. LOWERY, MUS. ZOO, LA. STATE UNIV., BATON ROUGE, LA.

92 ♀ (OVARY NOT ENL) CARPODACUS
E. SAN BRUNO, SAN MATEO CO., CALIF. DEC. 13, 1954
IRIS DARK BROWN. FEET & LEGS DARK BROWN
TO - DR. GEO. H. LOWERY, LA. STATE UNIV., BATON ROUGE, LA.

; ZIEGLER
, 1954 ~~#~~
~~1955~~

CATALOGUE

93 ♀ (OVARY NOT ENL) CARPODACUS

E. SAN BRUNO, SAN MATEO CO., CALIF. DEC. 13, 1954

IRIS DARK BROWN FEET & LEGS DARK BROWN

TO - DR. GEO. H. LOWERY, MUS. ZOO., LA. STATE UNIV., BATON ROUGE, LA.

94 ♂ (TESTES ∞) CARPODACUS

E. SAN BRUNO, SAN MATEO CO., CALIF. DEC. 13, 1954

IRIS DARK BROWN FEET & LEGS DARK BROWN

TO - DR. GEO. H. LOWERY, MUS. ZOO., LA. STATE UNIV., BATON ROUGE, LA.

95 ♀ (1 SCAR) REITHRODONTOMYS

SE. EDGE S.F. INT'L. AIRPORT (SALT MARSH), SAN MATEO CO. CALIF DEC. 19, 1954

140-77-17-13 MAMMAE ENLARGED.

TO - DR. GEO. H. LOWERY, MUS. ZOO., LA. STATE UNIV., BATON ROUGE, LA.

96 ♂ (TESTES 3X6 MM) MICROTUS

SE. EDGE S.F. INT'L AIRPORT (SALT MARSH), SAN MATEO CO, CALIF. DEC. 19, 1954

151-48-21-16

TO - DR. GEO. H. LOWERY, MUS. ZOO., LA. STATE UNIV., BATON ROUGE, LA.

97 ♀ (NO EMBS) MICROTUS

SE. EDGE S.F. INT'L AIRPORT (SALT MARSH), SAN MATEO CO, CALIF. DEC. 19, 1954

149-40-20-15

TO - DR. GEO. H. LOWERY, MUS. ZOO., LA. STATE UNIV., BATON ROUGE, LA.

98 ♂ (TESTES 4X6 MM) MUS

1 MI. NE. SAN BRUNO (SALT MARSH), SAN MATEO CO, CALIF. DEC. 20, 1954

144-67-18-12

TO - DR. GEO. H. LOWERY, MUS. ZOO., LA. STATE UNIV., BATON ROUGE, LA.

END 1954 CATALOGUE.

~~99 ♀ (9 SCARS) MUS~~

~~1 MI. NE. SAN BRUNO (SALT MARSH), SAN MATEO CO, CALIF. JAN 2, 1955~~

~~144-71-17-12~~

~~TO - DR. GEO. H. LOWERY, MUS. ZOO., LA. STATE UNIV., BATON ROUGE, LA~~

ZIEGLER
[redacted] 1954

CATALOGUE (BIRDS)

BIRDS FROM THE COLLECTION OF YOSHINORI MATSUI, AGARIMICHI, SAIHAKU-GUN, TOTTORI PREFECTURE, SO. HONSHU, JAPAN
TO - DR. GEO. H. LOWERY, LA. STATE UNIV, BATON ROUGE, LA.

TURDUS AUREUS AUREUS (HOLANDRE)
TURDUS PALLIDUS (GMELIN) ♀
TURDUS NAUMANNI (TEMMINCK) ♂
TURDUS NAUMANNI (TEMMINCK) ♀
SPODIOPAR CINERACEUS (TEMMINCK) ♂
COCCOTHRAUSTES COCCOTHRAUSTES LONNBERGI (BERGMAN) ♂
IXOBRYCHUS SINENSIS SINENSIS (GMELIN) ♀
ALCEDO ATTHIS JAPONICA (BONAPARTE) ♂
LUSCINIA CALLIOPE CALLIOPE (PALLAS) ♂
ACROCEPHALUS BISTRIGICEPS (SWINHOE) ♂
ACROCEPHALUS STENTOREUS (TEMMINCK + SCHLEGEL)
PARUS VARIUS VARIUS (TEMMINCK & SCHLEGEL) ♂
PARUS VARIUS ? UNLABELED
ANTHUS SPINOLETTA JAPONICA (TEMMINCK + SCHLEGEL)
CARDUELIS SPINUS (LINNÉ) ♂
EMBERIZA VARIABILIS (TEMMINCK) ♂
CHLORIS SINICA MINOR (TEMMINCK + SCHLEGEL) ♂
EMBERIZA RUSTICA (PALLAS)
EMBERIZA CIOIDES CIOIDES (BONAPARTE) ♀
CARDUELIS FLAMMEA FLAMMEA (LINNÉ)
BOMBYCILLA JAPONICA (SIEBOLD) ♀
BOMBYCILLA JAPONICA (SIEBOLD) ♂
ALAUDA ARVENSIS JAPONICA (TEMMINCK + SCHLEGEL) ♀
ALAUDA ARVENSIS LÖNNBERGI (HACHISUKA) ♀
ALCEDO ATTHIS JAPONICA (BONAPARTE) ♂
EMBERIZA VARIABILIS (TEMMINCK) ♂

Ziegler, A. C.
1954
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JAPANESE BOY. STOMACH CONTAINED 1 LARVA,
A FEW BERRIES & SAND (COMM.) LEGS, FEET & BILL BLACK.

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JAN. MIHO A.F.B. & VICINITY, TOTTORI PREFECTURE, HONSHU, JAPAN.

WEATHER – RAINY, SNOW FROM THE 22ND ON. NYCTICORAX NYCTICORAX HEARD EARLY IN MONTH. ANAS POECILORHYNCHA (20) SEEN ON ONLY TRIP TO OSHINOZU BEACH. MILVUS MIGRANS (FAIRLY COMMON). SHORE BIRDS HEARD AT NIGHT SEVERAL TIMES IN RICE PADDIES. ONE SEEN EARLY IN THE A.M. "KILLDEER" SIZE. MEDIUM-SIZED SANDPIPERS OR PLOVERS (10) SEEN ON OSHINOZU BEACH, ALSO A GULL WITH YELLOW BILL & FEET, WITH A TRACE OF A HOOD (PERHAPS OIL STAIN) ON THE TOP & SIDE OF HEAD. CORVUS SP. COMMON. IXOS AMAUROTIS, MOTACILLA GRANDIS, SPODIOPSAR CINERACEA, & PASSER MONTANUS COMMON. LANIUS BUCEPHALUS FAIRLY COMMON. ♀ PHOENICURUS AUROREUS SEEN ON BASE (THREE TIMES)

JAN 9 – Z-18 PASSER MONTANUS ♂(?) PICKED UP IN HANGAR BY A/1c JOHN E. SMITH. STOMACH EMPTY EXCEPT FOR A LITTLE SAND.

JAN 12 – Z-19 COCCOTHRAUSTES COCCOTHRAUSTES ♂(?) PICKED UP IN PINE WOODS NEAR NAWAHAMA BY JAPANESE BOY. STOMACH CONTENTS – CRACKED RAW RICE GRAINS & SEEDS (COMM.) LICE COLLECTED. LICE EGG CASES(?) ATTACHED TO UNDERSIDE OF BASE OF HEAD & NECK FEATHERS. EGG CASES WHITISH, OPAQUE. LEGS, FEET & BILL FLESH COLORED. (SHI-ME)

JAN 30 – Z-20 PHOENICURUS AUROREUS(?) ♀ (JO-BI-TAKI) SHOT IN PINE WOODS NEAR NAWAHAMA BY JAPANESE BOY. STOMACH CONTAINED 1 LARVA, A FEW BERRIES & SAND (COMM.) LEGS, FEET & BILL BLACK.

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FEB. MIHO A.F.B. & VICINITY, TOTTORI PREFECTURE, HONSHU, JAPAN.

WEATHER - COLD WITH SOME RAIN TOWARDS THE END OF MONTH.

NYCTICORAX NYCTICORAX(?) SEEN ABOUT THE 20TH. MILVUS MIGRANS FAIRLY COMMON. CORVUS SP., IXOS AMAUROTIS VERY COMMON. CORVUS PICKING UP DEAD _____ (FU-GU) ON OSHINOZU BEACH & CARRING THEM INTO PINES JUST BEYOND BEACH, BUT APPARENTLY THE FISH WERE TOO WELL-PROTECTED BY THEIR SPINES OR TOO DRIED UP FOR THE BIRDS TO EAT BECAUSE MANY OF THE 3"-4" FISH WERE FOUND ONLY DENTED UNDER THE PINES.

SEVERAL SEARCHES UNDER THE PINES FOR OWL PELLETS WERE MADE BUT NONE WERE FOUND FROM OCT. '53 → MAR. '54. THE FISHMEN PINE BRANCHES & NEEDLES WERE RAKED UP FOR FIRE-WOOD EVERY FEW DAYS, TWO, SO IF THERE HAD BEEN ANY PELLETS THEY MIGHT HAVE BEEN COLLECTED WITH THE NEEDLES. NONE OF THE VILLAGERS ASKED HAD EVER SEEN PELLETS, TWO.

TURDUS NAUMANNI SEEN IN CULTIVATED FIELDS OCCASIONALLY TOWARDS END OF MONTH. ALAUDA ARVENSIS SINGING IN FIELDS LAST 3 OR 4 DAYS OF MONTH, SOME ON THE GROUND & SOME HIGH IN THE AIR - SINGING WHILE HOVERING.

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FEB. (CONT.) MOTACILLA GRANDIS (SCARCE), LANIUS BUCEPHALUS, SPODIOPSAR CINERACEA, & CHLORIS SINICA FAIRLY COMMON. PASSER MONTANUS VERY COMMON — AROUND HOUSES (AT MY FEEDING STATION THE ONLY BIRD), IN THE FIELDS, ETC.

FEB 3 — Z-21 TARSIGER CYANURUS (?) ♀ SHOT BY JAPANESE BOY WITH AIR RIFLE (B.B.) STOMACH — A FEW BERRIES (COMM.) LEGS & FEET BROWNISH, BILL BLACK. (RURI-BI-TAKI)

FEB. 5 — Z-22 TURDUS NAUMANNI ♀ (?) SHOT BY JAPANESE BOY. STOMACH — BERRIES (COMM.) FEET & ~~BILL~~ DARK BROWN. ~~LEGS~~ — LIGHT BROWN.

FEB. 6 — Z-23 SPHENURUS SIEBOLDII ♀? (AO-BATO) SHOT BY JAPANESE BOY. STOMACH — BERRIES (CONNECTED) LEGS & FEET — GREYISH-RED. BILL — BROWNISH WITH A TINGE OF BLUE OR GREY AT BASE.

MOST OF THESE BIRDS BROUGHT TO ME BY JAPANESE BOYS WERE SKINNED OUT & THE SEX & STOMACH & INTESTINAL CONTENTS EXAMINED & THEN THE BODY WAS GIVEN BACK TO THE BOYS TO BE COOKED & EATEN BY THEM OR THEIR FAMILIES.

FEB 13 — Z-24 TURDUS PALLIDUS GMELIN ? ♀ ? CAUGHT IN NET BY MR HIROSHI NABAMI. PARASITES CONNECTED. STOMACH CONTENTS — SEEDS & BERRIES (COMM.) LEGS & FEET LIGHT BROWN. BILL DARK BROWN WITH BASAL HALF OF LOWER MANDIBLE YELLOWISH. (SHIRO-HARA) WHITE - STOMACH

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FEB 13 (CONT) HIROSHI NAGAMI WAS A FARMER WHO WAS INTERESTED IN BIRDS. HE HAD A FEW BIRDS CAGED (C. COCCOTHRAUSTES, TURDUS PANLIOUS & IXOS AMAUROTIS) + SET UP A BIRD NET (AMI) OF THIN BLACK SILK THREAD (6'X24') IN THE BAMBOO GROVE BACK OF HIS HOUSE + CAUGHT AN INTERESTING ASSORTMENT OF BIRDS WHICH HE GAVE TO ME. THE NET IS STRUNG WITH THE 3 OR 4 LENGTH-WISE HEAVY CORDS STRETCHED TIGHT & THE NET BILLOWING OR SAGGING FROM THEM. THIS FORMS A LONG POCKET THE LENGTH OF THE NET IN WHICH THE BIRDS HITTING THE NET BECOME ENTANGLED. IF THE NET WERE STRETCHED TIGHT FROM TOP TO BOTTOM THE BIRDS WOULD JUST HIT THE MESH & BOUNCE OFF. HIROSHI SET OUT A CAGED BULBUL AS A DECOY & SET UP A BUNCH OF LIGUSTRUM SP.? BERRIES NEAR THE NET BUT I DON'T KNOW WHETHER THESE TWO THINGS HELPED DRAW THE TORI OR NOT.

— Z-25 IXOS AMAUROTIS ♂ NETTED BY HIROSHI NAGAMI. CAGED BIRD - STOMACH CONTENTS NOT COLLECTED.

— Z-26 COCCOTHRAUSTES COCCOTHRAUSTES ♂ CAUGHT IN NET BY HIROSHI NAGAMI. CAGED BIRD - STOMACH CONTENTS NOT COLLECTED. (SHI ME)

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FEB 14 — Z-27 LANIUS BUCEPHALUS (TEMMINCK & SCHLEGEL) ♂. SHOT BY JAPANESE BOY. FEET, LEGS & BILL DARK BROWN WITH BASAL HALF OF LOWER MANDIBLE ORANGE-TAN. THESE SHRIKES, ASIDE FROM THE DIFFERENT COLORATION, LOOK & ACT JUST AS OUR OWN STATE-SIDE ONES.

FEB 20 — Z-28 LANIUS BUCEPHALUS (T & S) ♀ (MO-ZÚ) CAUGHT IN NET BY HIROSHI NAGAMI. STOMACH CONTAINED THE REMAINS OF ONE SMALL BEETLE. FEET & LEGS DARK BROWN. BILL DARK BROWN WITH BASAL HALF OF LOWER MANDIBLE ORANGE-TAN.

— Z-29 LANIUS BUCEPHALUS T & S ♀ NETTED BY HIROSHI NAGAMI. STOMACH EMPTY EXCEPT FOR A LITTLE SAND. FEET, LEGS & BILL DARK BROWN WITH BASAL HALF OF LOWER MANDIBLE ORANGE-TAN.

FEB 26 — Z-6M MUS MUSCULUS ♂ (NA-ZUMI) CAUGHT BY CAT. RIGHT HIND FOOT MISSING.

MAR MIHO A.F.B. & VICINITY, TOTTORI KEN, HONSHU, JAPAN.

WEATHER - RAINY OFF & ON ALL MONTH.

MAR 3. OSHINOZU BEACH — COLYMBUS _____ ? ( ), TURDUS NAUMANNI (IN FLOCKS), CHLORIS SINICA & PASSER MONTANUS.

MILVUS MIGRANS (FAIRLY COMMON), ALAUDA ARVENSIS & CORVUS SP. (COMMON) MOTACILLA GRANDIS & COCCOTHRAUSTES COCCOTHRAUSTES (SCARCE). LANIUS BUCEPHALUS, FRINGILLA MONTIFRINGILLA & TURDUS NAUMANNI FAIRLY COMMON.

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MAR (CONT) PASSER MONTANUS & CHLORIS SINICA (COMMON). THE BRAMBLINGS IN FLOCKS OF 100+ WERE SEEN AT THE OSHINOZUBEDEN IN THE PINES 2 OR 3 TIMES. THEY WOULD FEED ON THE GROUND + IF SCARED UP WOULD RETURN TO THE SAME PLACE AFTER 10 MINUTES OR SO. THEY KEPT UP A CONSTANT "GOLDFINCH-LIKE" TWITTERING. CHLORIS SINICA WERE ALSO FEEDING WITH THEM.

MAR6 — Z-30 TURDUS PALLIDUS GMELIN ♂? NETTED BY HIROSHI NAGAMI. STOMACH CONTENTS - SEEDS + MAGGOTS (COMM.). LEGS & FEET LIGHT BROWN. BILL BROWN WITH ALL BUT TIP OF LOWER MANDIBLE YELLOWISH-BROWN.

— Z-31 PASSER MONTANUS ♀ NETTED BY HIROSHI NAGAMI. STOMACH - RAW RICE & SAND. LEGS & FEET BROWN. BILL BLACK.

MAR9 - Z-7M RATTUS SP? ♀ CAUGHT IN LIVE TRAP BY HIROSHI NAGAMI. FLEAS COLLECTED 4 EMBS RT SIDE, 2 EMBS LT. SIDE. 6 PR. MAMMAE.

MAR11 - Z-32 PASSER MONTANUS SEX? NETTED & SKINNED BY HIROSHI NAGAMI. STUFFED BY MYSELF. STOMACH CONTENTS? BILL BLACK. LEGS & FEET BROWN.

— Z-33 TURDUS PALLIDUS ♂ NETTED BY HIROSHI NAGAMI. STOMACH CONTENTS - SAND, FEW SEEDS (COMM). FEET & LEGS LT.-BROWN. LOWER MANDIBLE YELLOWISH-TAN WITH TIP & UPPER MANDIBLE BROWN.

MAR15 - Z-34 CHLORIS SINICA ♀ AGED BIRD

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MAR 15 (CONT.) FROM THE MAINAGAMI FAMILY. STOMACH CONTENTS NOT COLLECTED. FEET, LEGS & BILL FLESH-COLORED.

MAR 17 — Z-35 CHLORIS SINICA ♂ NETTED BY HIROSHI NAGAMI. FEET, LEGS & BILL FLESH-COLORED. TESTES ENLARGED(!) 5×6mm. STOMACH - SAND, RAW RICE (KOME), + SMALL AMOUNT OF GREEN LEAVES (COLL.)

MAR 25 — Z36 HOREITES CANITANS ♀ (U-GUIS) NETTED BY HIROSHI NAGAMI. STOMACH - REMAINS OF 2 OR 3 SMALL BEETLES. FEET, LEGS & LOWER MANDIBLE LIGHT BROWN. UPPER MANDIBLE BROWN. IRIS - BROWNISH-BLACK.

THIS BIRD IS THE HARBINGER OF SPRING IN JAPAN JUST AS THE ROBIN SUPPOSEDLY IS IN AMERICA. ITS CALL "HO - HOKI-KYO" CAN BE HEARD OFTEN IN CLUMPS OF BUSHES + WOODS AROUND TOWN. THE CALL IS AS WELL KNOWN TO THE JAPANESE AS "BOB - BOB WHITE" IS TO AMERICANS. A TEMPLE SOMEWHERE IN JAPAN HAS A FLOOR OF BOARDS LAID IN SUCH A WAY AS TO PURPOSELY PRODUCE THIS SOUND WHEN WALKED UPON.

APR. MIHO A.F.B. + VICINITY, TOTTORI PREFECTURE, HONSHU, JAPAN.

WEATHER — COOL, RAINY OFF & ON.

MILVUS MIGRANS (FAIRLY COMMON), CHARADRIUS DUBIUS SEEN OCCASIONALLY.

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APR. (CONT.) _____ (CORNISH PLOVER)
(3) (_____) SEEN ON BEHINOZU BEACH EARLY IN MONTH. ALAUDA ARVENSIS, CORVUS SP., HIRUNDO RUSTICA COMMON. TURDUS NAUMANNI, MOTACILLA GRANDIS, LANIUS BUCEPHALUS, SPODIOPSAR CINERACEA & HOREITES CANITANS FAIRLY COMMON. PASSER MONTANUS & CHLORIS SINICA COMMON. COCCOTHRAUSTES COCCOTHRAUSTES SEEN OCCASIONALLY. ALAUDA ARVENSIS NESTING ON BASE ABOUT THE 15TH

APR 15. TAMATSUKURI SPA, SHIMANE PREFECTURE, HONSHU, JAPAN. A.M.-HILLS & VALLEY
WEATHER - CLEAR, WARM.
THIS SPA IS KNOWN FOR ITS HOT SPRINGS & GREEN, CLEAR & RED QUARTZ WHICH IS MADE INTO BUTTONS, BROOCHES RINGS, ETC. IT IS PART OF THE TERRITORY ONE RULED BY OKUNI-NUSHI NO-MIKOTO (THE HEAVENLY RULER OF THE BIG COUNTRY) - THE SEMI GOD OF MEDICINE OR RELATED FIELDS.
THE SPA SITS A SHORT WAYS UP IN A SLOPE BETWEEN HILLS & IS BISECTED BY A STREAM LEADING THRU A COUPLE OF MILES OF CULTIVATED FIELDS TO THE LAND-LOCKED BAY TO THE WEST OF MIHO A.F.B.
MILVUS MIGRANS - COMMON
BUTASTUR INDICUS - ONE ON TERRACED HILLSIDE (SA-SHI-BA)
UNIDENT. PHEASANT (LONGTAIL) (KI-JI PHEASANT)
APUS PACIFICUS - A DOZEN OR MORE FLYING OVER (AMAT-TSUBAME)
DRYOBATES SP? - ONE - TOO FAR AWAY TO IDENT. (KITTSU-TSU-KI PECKER-WOOD.)

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APR 15 (CONT.) ALCEDO ATTHIS
HIRUNDO RUSTICA - FAIRLY COMMON
CORVUS SP - A FEW
IXOS AMAUROTIS - ONLY 1 OR 2 (AKA-GERA DORI) RED - BIRD
AEGITHALOS CAUDATUS, PARUS MAJOR
TURDUS NAUMANNI - SCARCE
PHOENICURUS AUROREUS - 1 ♂, 1 ♀?
MOTACILLA GRANDIS - 3 OR 4
ZOSTEROPS PALPEBROSA (ME-GIRO) EYE-WHITE - ONE
(THE WHITEEYE FREQUENTLY SEEN CAGED IN NAKAHAMA & YONABO - VERY ACTIVE IN CAGE.)
PASSER MONTANUS - FAIRLY COMMON.
CHLORIS SINICA - MOSTLY FLYING OVERHEAD.
HORETES CANTANS - PERHAPS 6 HEARD CALLING - THE QUALITY OF THE SONG MAKES LOCATION DIFFICULT AS WELL AS DETERMINATION OF NUMBER OF BIRDS.
EMBERIZA CIOIDES - SOME SINGING - A LITTLE LIKE SONG OF MELOPSITTACUS MELODIA
FRINGILLA MONTIFRINGILLA - 5 SEEN IN CEDAR TREE.
EMBERIZA RUSTICA -

APR 16 TAMATSUKURI, SHIMANE KEN, HONSHU, JAPAN. WEATHER - CLEAR. WARM. A.M. - HILLS, FIELDS & BEACH.
PODICEPS CHRISTATA - ONE
PODICEPS RUFICOLLIS - 2 OR 3 (KATSU-BURI)
MILVUS MIGRANS - FAIRLY COMMON
STREPTOPELIA ORIENTALIS - 6 FEEDING IN FIELDS
ANAS PLATYRHYNCHOS (?) - 4 TOO FAR OUT FOR GOOD LOOK.
ALCEDO ATTHIS - TWO - IN COURTSHIP FLIGHT?
ALAUDA ARVENSIS - COMMON IN CULTIVATED FIELDS
HIRUNDO RUSTICA - FAIRLY COMMON
CORVUS SP. - A FEW

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APR 16 (CONT) IXOS AMAUROTIS — 2 OR 3
AEGITHALOS CAUDATUS — IN HILLS
TURDUS NAUMANNI VAR. EUNOMUS - A FEW IN WOODS
SAXICOLA TORQUATUS — 2 ♂, 1 ♂ - IN MULBERRY BUSHES IN FIELD NEAR BEPPU.
MOTACILLA GRANDIS - 5 OR 6
NANIUS BUCEPHALUS — 3 OR 4 ON TELEPHONE WIRES.
HORITES CANTANS - 3 OR 4 SINGING AT FOOT OF HILLS
EMBERIZA CIOIDES
EMBERIZA RUSTICA
PASSER MONTANUS — FAIRLY COMMON
CHLORIS SINICA
BIRDS SEEN FROM TRAIN BACK TO YONABO. P.M. — PHASIANUS VERSICOLOR 1 ♂ IN CULTIVATED FIELD. (KI-JI - (LITTLE) PHEASANT -)
ALSO UNIDENT. EGRETTA SP. (SHIRA-SAGI WHITE -)
BIRD NET SET OUT IN BAMBOO GROVE BESIDE SMALL POND ON SIDE OF HILL ABOVE SPA. THE NIGHT OF THE 15TH
- Z-8M "BAT" (KÓ-MORI) ♂ STOMACH CONTENTS - UNIDENTIFIABLE. TESTES - 2 X 2½ MM NO OTHER MEASUREMENTS.
- Z-9M "MOLE" (MO-GURA) ♂ CAUGHT IN FIELD IN NAKAHAMA BY FARMER. BROUGHT TO ME BY HIROSHI NABAME. BROWNISH STAINS ON THE FUR ON UNDERSIDE OF CHEST & NECK. PARASITES COLLECTED. STOMACH - LARGE GRUBS, AN EARTHWORM & A WIRE WORM.

APR 8 NAKAHAMA (KOSHINOZU DISTRICT), TOTTORI KEN, HONSHU, JAPAN.
- Z-37 CHLORIS SINICA ♂ NETTED BY HIROSHI NABAMI. STOMACH - SEEDS & SAND (COLL.)

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APR 8 (CONT) LEGS, FEET & BILL FLESH COLORED. TESTES ENLARGED - 4X6½, 4X5MM.

- Z-38 CHLORIS SINICA ♀ NETTED BY HIROSHI NABAMI. STOMACH - RAW RICE GRAINS & SEEDS (COMM.). LEGS, FEET & BILL FLESH-COLORED, OVARY ENLARGED.

APR 11 - Z-39 LANIUS BUCEPHALUS T&S. ♂ NETTED BESIDE RICE PADDY. STOMACH - 2 CATERPILLARS OTHER SMALL INSECTS. BILL BLACK. LEGS & FEET DARK BROWN. TESTES ENLARGED - 6X9, 5X6 MM.

- Z-40 FRINGILLA MONTIFRINGILLA L. ♂ (A-TORI) NETTED BY JAPANESE BOYS IN SMALL FIELD AMONG PINES ALONG BEACH & BOUGHT FROM THEM FOR 150 ¥ (ABOUT 42 CENTS). STOMACH - SEEDS & SAND (COMM.). BILL - YELLOW WITH BLACK TIP. FEET & LEGS BROWN. TESTES NOT ENLARGED 1X1.5MM. THESE BOYS SET UP THEIR NET BESIDE A SMALL POOL IN THIS FIELD & WHEN A BIRD LIT TO DRINK THEY RAN & SCARED HIM UP INTO THE NET. THEY WERE ALSO USING A CHLORIS SINICA IN A CAGE FOR A DECOY.

APR 12 - Z-41 URAGUS SIBIRICUS ♀ (BENI-MASHIKO) NETTED BY HIROSHI NABAMI ABOUT APR 2, '54 CAGED BIRD - STOMACH CONTENTS NOT COLLECTED. BILL, FEET & LEGS LIGHT BROWN. OVARY NOT ENLARGED.

- Z-42 TURDUS PALLIDUS GMELIN ♀ NETTED BY HIROSHI NABAMI ABOUT MAR 1, '54 OVARY NOT ENLARGED. SKIN PUT UP BY HIROSHI NABAMI. LEGS & FEET YELLOWISH, UPPER MANDIBLE BROWN, LOWER YELLOW WITH DARK TIP.

APR. 14 - Z-43 PASSER MONTANUS ♀ CAUGHT IN NET

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APR 14 (CONT.) BESIDE RICE PADDY. OVARY ENLARGED STOMACH – SAND & RAW RICE GRAINS (COLL.) BILL BLACK. FEET & LEGS LIGHT BROWN.

APR 15 – Z-44 CAPELLA _____ ♂ (SHIGI) FOUND DEAD IN RICE PADDY BY JAPANESE BOY. STOMACH CONTENTS – UNIDENTIFIABLE. TESTES – 3x8mm. BILL – BLACK WITH BASAL HALF BROWNISH. LEGS & FEET BROWN.

APR 17 AGARI MICHI (2 MI. N. OF NAKAHAMA) TOTTORI PREFECTURE, HONSHU, JAPAN.

GOT TO RETIRED HIGH SCHOOL BIOLOGY TEACHER YOSHINORI MATSUI'S HOUSE AT 4:15 A.M. WITH HIROSHI NAKAMI. THE DOCTOR TOOK HIS NETS (ALREADY ON POLES & WRAPPED UP) & LED US ABOUT A MILE OUT INTO RICE, WHEAT & MULBERRY FIELDS WHERE HE SET UP THE NETS JUST AS IT WAS LIGHT ENOUGH TO SEE. WE THEN WALKED SOME DISTANCE AWAY & WAITED HALF AN HOUR BEFORE RETURNING TO THE NETS. THE NEXT 4 BIRDS WERE CAUGHT THERE THAT MORNING. (SEE ILLUSTRATION OF HOW MATSUI SET UP HIS 12 NETS)

– Z-45 CAPELLA _____ ♂ NETTED BY MATSUI. STOMACH – SAND & A LITTLE VEGETABLE MATTER. TESTES 4x9mm. BILL BLACK WITH BASAL HALF BROWNISH. LEGS & FEET BROWN WITH GREENISH TINT.

– Z-46 TURDUS NAUMANNI ♀ NETTED BY MATSUI. STOMACH EMPTY. OVARY SLIGHTLY ENLARGED. LEGS & FEET BROWN. BILL DARK

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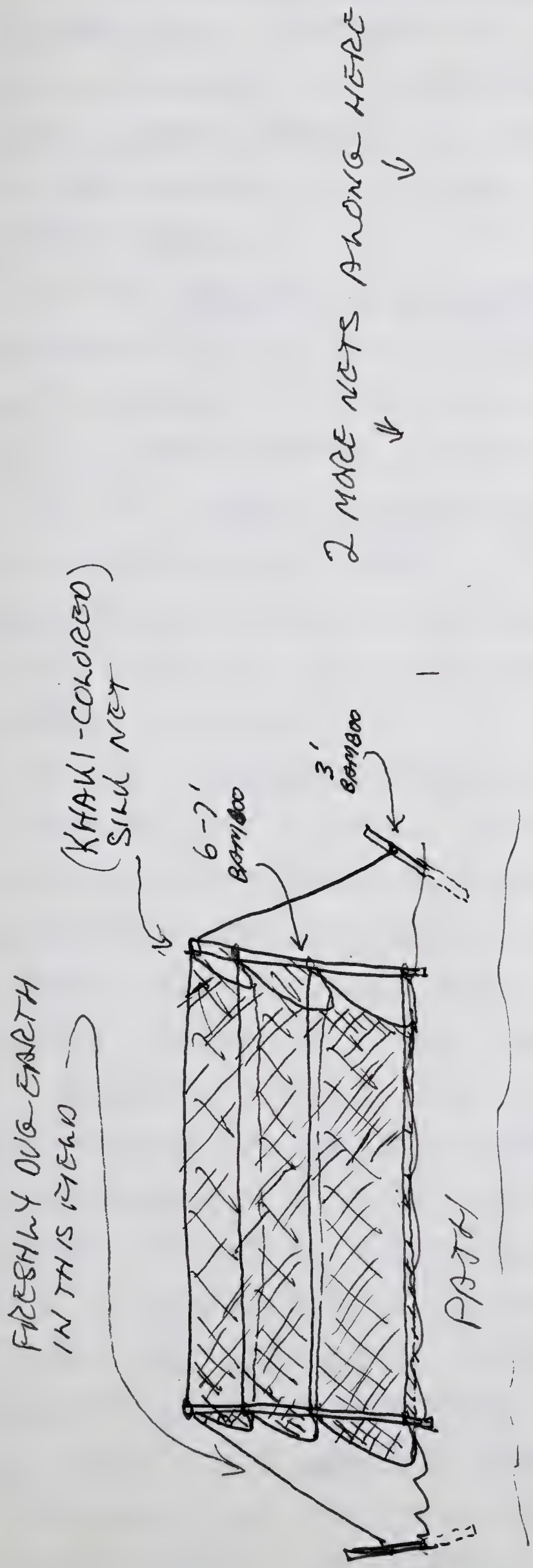
JOURNAL

APR 17, YOSHINORI MATSUI'S
SYSTEM OF EARLY MORNING
BIRD NETTING.



C. ZIEGLER
1954
(TRANSCRIBED)

JOURNAL

APR 17 (CONT.) BROWN WITH BASAL HALF OF LOWER MANDIBLE LIGHT-BROWN.

- Z-47 TURDUS NAUMANNI ♀ NETTED BY MATSUI. STOMACH – SMALL BEETLE, MILLIPEDES(?). OVARY NOT ENLARGED. BILL DARK BROWN WITH BASAL HALF OF LOWER MANDIBLE LIGHT BROWN. LEGS & FEET BROWN.

- Z-48 ANTHUS SPINOLETTA ♂ (IÁ-HI-BÁRI) NETTED BY MATSUI. STOMACH – REMAINS OF SMALL MILLIPEDES(?). TESTES-1X2 MM. BILL DARK BROWN. FEET & LEGS LIGHT BROWN.

APR 18 – Z-49 LANIUS BUCEPHALUS ♂ SHOT BY JAPANESE BOY. STOMACH A GRUB, BEETLES, OTHER SMALL INSECTS. TESTES-6X7, 6X9 MM. BILL BLACK. LEGS & FEET DARK BROWN.

APR 19 – Z-50 TURDIS CARDIS ♂ (KURÓ-TSÚGUMI) BLACK-THRUSH. NETTED IN SMALL PATCH OF WOODS BY MR. KATSUZI KABENO (A ROOM-BOY AT BASE) STOMACH EMPTY (BIRD CAGED FOR ONE DAY) TESTES 2.5X3.5 MM. BILL ORANGE. FEET & LEGS ORANGE-TAN. NETTED AT AMARIKO, TOTTORI KEN, HONSHU, JAPAN.

KABENO TOLD ME OF LARGE BATS ROOSTING IN A BIG TREE 2 MI. N. OF HAMAHAMA & SAID HE WOULD CLIMB THE TREE & GET ONE BUT APPARENTLY HE NEVER DID & I DIDN'T HAVE A CHANCE TO GET THERE TO SEE THE ROOST. ONE EVENING LAST OCT. OR NOV. I SAW TWO LARGE BATS FLYING OVER POSSIBLY OF THE GENUS _____ THEY LOOKED AS LARGE AS A SMALL HERON.

C. ZIEGLER
1954
(UNSCRIBED)

JOURNAL

APR 19 (CONT.) – AMARIKO, TOTTORI PREFECTURE, HONSHU, JAPAN.

– Z-51 TARSIGER CYANURUS ♂ (RURI-BI-TAKI) NETTED IN SMALL GROVE OF TREES BY KATSUZI KAGENO. STOMACH EMPTY (BIRD CAGED FOR ONE DAY). TESTES 1.5X2MM. BILL BLACK, LEGS & FEET DARK BROWN.

APR 22 NAKAHAMA, TOTTORI KEN, HONSHU, JAPAN.

– Z-52 MUSCICAPULA NARCISSINA ♂ (KIBI-TAKI). NETTED IN BAMBOO GROVE BY JAPANESE FARMER. CAGED BIRD – STOMACH CONTENTS NOT COLLECTED. SKIN WASHED. TESTES – 3.5X5MM FEET, LEGS & BILL DARK BROWN.

APR 24 – Z-53. EMBERIZA CIOIDES ♀ NETTED BY HIROSHI NAGAMI ABOUT MAR 20, '54. CAGED BIRD – STOMACH CONTENTS NOT COLL. OVARY NOT ENLARGED. FEET & LEGS FLESH COLORED. BILL BLACK WITH BASAL HALF OF LOWER MANDIBLE GRAY.

APR 25 – Z-54 COCCOTHRAUSTES COCCOTHRAUSTES ♂ NETTED BY HIROSHI NAGAMI. CAGED BIRD STOMACH CONTENTS NOT COLLECTED. TESTES – 1.5X2MM. LEGS & FEET FLESH COLORED. BILL BLUISH-GRAY WITH LOWER CENTER PORTION OF LOWER MANDIBLE TAN.

APR 27 – Z-55 TURDUS CARDIS ♀ NETTED BY HIROSHI NAGAMI. OVARY SLIGHTLY ENLARGED. PARASITES COLLECTED. STOMACH CONTENTS – REMAINS OF SMALL BEETLE. LEGS & FEET FLESH-COLORED. BILL LIGHT BROWN.
(KURÓT-TSUGUMI)
BLACK – THRUSH

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1954
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JOURNAL

MAY 1-15TH MIHO A.F.B. & VICINITY, TOTTORI KEN, HONSHU, JAPAN.

WEATHER - RAINY OFF & ON.

NYCTICORAX NYCTICORAX HEARD OCCASIONALLY. MILVUS MIGRANS FAIRLY COMMON, NINOX SCUTULATA HEARD OCCASIONALLY. TWO SEEN ON FOX TEMPLE GROUNDS AT NIGHT WITH AID OF FLASHLIGHT. THE EYES GLOWED REDDISH & THE BIRD CONTINUED TO CALL AS KEIKO & I WATCHED. (AO BAZU-KU) APUS PACIFICUS SEEN OCCASIONALLY. ALAUDA ARVENSIS, HIRUNDO RUSTICA & CORVUS SP. COMMON. PHOENICURUS AUROREUS SEEN OCCASIONALLY. MOTACILLA GRANDIS, LANIUS BUCEPHALUS, SPODIOPSAR CINERACEA & HORETES CANTANS FAIRLY COMMON. ACROCEPHALUS ARUNDINACEUS & C. COCCOTHRAUSTES SEEN OR HEARD OCCASIONALLY. PASSER MONTANUS & CHLORIS SINICA COMMON.

MAY 15 BUTASTUR INDICUS (3) SEEN FROM TRAIN BETWEEN YONABO & KOBE.

MAY 2 - Z-56 BOMBYCILLA JAPONICA SIEBOLD ♂ (HIRÉN-JÁKU). NETTED BY HIROSHI NABAMI. CAGED BIRD - STOMACH CONTENTS NOT COLLECTED. TESTES - 3X3, 4X5MM. FEET, LEGS & BILL BLACK.

MAY 3 - Z-57 NINOX SCUTULATA ♂ (AO-BAZU-KU) NETTED BY HIROSHI NABAMI. CAGED BIRD STOMACH CONTENTS NOT COLLECTED. TESTES - 3X5, 3X8MM. FEET YELLOW. LEGS FEATHERED. BILL DARK BROWN WITH TIP TAN. IRIS YELLOW. THE OWL TORE QUITE A HOLE IN HIROSHI'S NET BUT IT HELD HIM.

C. ZIEGLER
1954

JOURNAL

AUDUBON
DAILY FIELD CARD
OF
BIRDS
Occurring in the
PACIFIC STATES
(California, Oregon and Washington)

Observer ZIEGLER

Locality LAFAYETTE RES., CALIF.

Date 6 JUNE '54 Time 1100 – 1600

Weather CLEAR, WARM Wind +

Subspecies, with the exception of a few forms, easily recognizable in the field, are omitted.

Put a more detailed account of today's observations in a separate notebook. Maybe you have seen something new!

No.		No.	
	Loon, Common		Egret, Brewster's
	Pacific		Heron, Anth. Green
	Red-throated		Black-cr. Night
	Grebe, Holboell's		Bittern, American
	Horned		Least
	Eared		Ibis, Wood
	Western		Wh.-faced Glossy
(75 imm)	Pied-billed		Swan, Whistling
	Albatross, Black-f.		Goose, Canada
	Short-tailed		Hutchins's
	Shearwater, Sl.-bill.		Cackling
	Sooty		Brant, Black
	Black-vented		Goose, Emperor
	Pink-footed		White-fronted
	Fulmar, Pacific		Snow
	Petrel, Fork-tailed		Ross's
	Beal's		Tree-duck, Fulvous
	Black		Mallard
	Ashy		Gadwall
	Socorro		Widgeon, European
	Pelican, White		Baldpate
	California Brown		Pintail
	Cormorant, Farallon		Teal, Green-winged
	Brandt's		Blue-winged
	Baird's		Cinnamon
	Man-o'-war-bird		Shoveller
	Heron, Great Blue		Duck, Wood
	Egret, American		Redhead

No.		No.	
	Duck, Ring-necked		Plover, Mountain
	Canvas-back	2	Killdeer
	Duck, Greater Scaup		Golden
	Lesser Scaup		Black-bellied
	Golden-eye, American		Surf-bird
	Barrow's		Turnstone, Ruddy
	Bufflehead		Black
	Old-squaw		Snipe, Wilson's
	Duck, Harlequin		Curlew, Long-billed
	Scoter, White-winged		Hudsonian
	Surf		Sandpiper, Spotted
	American		Solitary
3	Duck, Ruddy		Tattler, Wandering
	Merganser, Hooded		Willet
	American		Yellow-legs, Greater
	Red-breasted		Lesser
1	Vulture, Turkey		Knot
	Condor, California		Sandpiper, Aleutian
	Kite, White-tailed		Pectoral
	Goshawk		Baird's
	Hawk, Sharp-shinned		Least
	Cooper's		Red-backed
2	Red-tailed		Dowitcher, Long-bill.
	Red-bellied		Sandpiper, Western
	Swainson's		Godwit, Marbled
	Am. Rough-leg.		Sanderling
	Fer. Rough-leg.		Avocet
	Harris's		Stilt, Black-necked
	Eagle, Golden		Phalarope, Red
	Bald		Wilson's
	Hawk, Marsh		Northern
	Osprey		Jaeger, Pomarine
	Falcon, Prairie		Parasitic
	Hawk, Duck		Long-tailed
	Pigeon		Gull, Glaucous
	Sparrow		Glaucous-winged
	Grouse, Sooty		Western
	Franklin's		Herring
	Ruffed		California
	Ptarmigan, Wh.-tailed		Ring-billed
	Grouse, Sharp-tailed		Short-billed
	Sage Hen		Laughing
	Partridge, Eur.		Bonaparte's
	Bob-white		Kittiwake, Pac.
5	Quail, California		Gull, Sabine's
	Gambel's		Tern, Gull-billed
	Mountain		Forster's
	Pheasant, Ring-n.		Common
	Crane, Little Brown		Arctic
	Sandhill		Brown's
	Rail, Cal. Clapper		Royal
	Virginia		Elegant
	Sora		Caspian
	Yellow		Black
	Farallon		Murre, California
	Gallinule, Florida		Guillemot, Pigeon
4/2 imm	Coot		Murrelet, Marbled
	Oyster-catcher, Black		Xantus's
	Plover, Snowy		Craveri's
	Semipalmated		Ancient

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No.	
	Auklet, Cassin's
	Paroquet
	Rhinoceros
	Puffin, Horned
	Tufted
4	Dove, Mourning
	Chinese Spotted
	Ringed Turtle
	White-winged
	Mexican Ground
	Cuckoo, California
	Road-runner
1	Owl, Barn
	Screech
	Flam. Screech
	Horned
	Snowy
	Hawk
	Pygmy
	Elf
	Burrowing
	Spotted
	Great Gray
	Long-eared
	Short-eared
	Saw-whet
	Poor-will
	Nighthawk
	Texas
	Swift, Black
	Vaux's
	White-throated
	Hummingbird, Costa's
	Black-chinned
	Anna's
	Broad-tailed
	Rufous
	Allen's
	Calliope
	Kingfisher, Belted
1	Flicker, Red-shafted
	Gilded
	Woodpecker, Pileated
	Gila
	California
	Lewis's
	Sapsucker, Red-naped
	Red-breasted
	Williamson's
1	Woodpecker, Hairy
3	Downy
	Cactus
	Nuttall's
	White-headed
	Arc. Three-toed
	Am. Three-toed
	Kingbird, Eastern
	Western
	Cassin's
	Flycatcher, Ash-thr.

No.	
13	Phoebe, Black
	Say's
	Flycatcher, Little
	Hammond's
	Wright's
	Gray
	Western
	Pewee, Western Wood
	Flycatcher, Olive-s.
	Vermilion
	Lark, Horned
	Swallow, Violet-green
	Tree
	Bank
	Rough-winged
	Barn
100	Cliff NESTING ON TOWER
	Martin, Purple
	Jay, Rocky Mt.
	Oregon
	Steller's (Crested)
6	California
	Santa Cruz
	Magpie, American
	Yellow-billed
	Raven, American
	Crow
	Jay, Piñon
	Nutcracker, Clark's
	Chickadee, Black-c.
	Mountain
	Chestnut-backed
	Titmouse, Plain
	Verdin
20	Bush-Tit
	Nuthatch, Slender-b.
	Red-breasted
	Pygmy
	Creeper
	Wren-Tit
	Dipper
	Wren, House
	Winter
	Bewick's
	Cactus
	Marsh
	Canyon
	Rock
	Mockingbird
	Catbird
	Thrasher, Bendire's
	California
	Leconte's
	Crissal
	Sage
1	Robin
	Thrush, Varied
	Hermit
	Russet-backed
	Willow

No.	
	Bluebird, Western
	Mountain
	Solitaire, Townsend's
	Gnatcatcher, Western
	Plumbeous
	Black-tailed
	Kinglet, Golden-cr.
	Ruby-crowned
	Pipit, American
	Waxwing, Bohemian
	Cedar
	Phainopepla
	Shrike, Northwestern
	California
	Vireo, Hutton's
	Least
	Gray
	Cassin's
	Red-eyed
	Warbling
	Warbler, Bl. and Wh.
	Lutescent
	Dusky
	Calaveras
	Lucy's
	Yellow
	Myrtle
	Audubon's
	Black-thr. Gray
	Townsend's
	Hermit
	Water-Thrush, Grin.
	Warbler, Macgilliv.
	Yellow-throat
	Chat, Long-tailed
	Warbler, Pileolated
	Redstart, American
3	Sparrow, English
	Bobolink
2	Meadowlark, Western
	Blackbird, Yellow-h.
20	Red-wing
	Bicolored
	Tricolored
	Oriole, Ariz. Hooded
	Scott's
	Bullock's
10	Blackbird, Brewer's
	Cowbird

No.	
	Tanager, Western
	Cooper's
	Grosbeak, Bl.-headed
	Blue
	Bunting, Lazuli
	Grosbeak, Evening
	Finch, Cal. Purple
	Cassin's Purple
10	House
	Grosbeak, Pine
	Finch, Rosy
	Redpoll
	Siskin, Pine
	Goldfinch
5	Green-backed
	Lawrence's
	Crossbill, Red
	White-winged
	Towhee, Green-tailed
	Spotted
1	Brown
	Abert's
	Bunting, Lark
	Sparrow, Savannah
	Belding's
	Large-billed
	Grasshopper
	Vesper
	Lark
	Rufous-crowned
	Desert
	Bell's
	Sage
	Junco, Slate-colored
2	Oregon
	Gray-headed
	Sparrow, Tree
	Chipping
	Brewer's
	Black-chinned
	Gambel's
	Puget Sound
	Nuttall's
	Golden-crowned
	White-throated
	Fox
	Lincoln's
1 (?)	Song
	Bunting, Snow

Accidentals.....

Total Species.....27.....Individuals.....

NATIONAL ASSOCIATION OF AUDUBON SOCIETIES

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PELLETS COLLECTED

Printed in U. S.

L. ZIEGLER
1954

JOURNAL

AUDUBON
DAILY FIELD CARD
OF
BIRDS
Occurring in the
PACIFIC STATES
(California, Oregon and Washington)

bserver ZIEGLER

ocality MILLBRAE BAY AREA, CALIF.

ate 12 JULY 54 Time 8:00 AM - 2:00 PM

Veather CLOUDY, COOL AM. CLEAR, WARM P.M. Wind ++

Subspecies, with the exception of a few forms, easily recog-
zable in the field, are omitted.

*Put a more detailed account of today's observations in a sep-
ate notebook. Maybe you have seen something new!*

No.		No.	
	Loon, Common		Egret, Brewster's
	Pacific		Heron, Anth. Green
	Red-throated		Black-cr. Night
	Grebe, Holboell's		Bittern, American
	Horned		Least
	Eared		Ibis, Wood
	Western		Wh.-faced Glossy
	Pied-billed		Swan, Whistling
	Albatross, Black-f.		Goose, Canada
	Short-tailed		Hutchins's
	Shearwater, Sl.-bill.		Cackling
	Sooty		Brant, Black
	Black-vented		Goose, Emperor
	Pink-footed		White-fronted
	Fulmar, Pacific		Snow
	Petrel, Fork-tailed		Ross's
	Beal's		Tree-duck, Fulvous
	Black	6(?)	Mallard
	Ashy		Gadwall
	Socorro		Widgeon, European
	Pelican, White		Baldpate
2	California Brown		Pintail
	Cormorant, Farallon		Teal, Green-winged
	Brandt's		Blue-winged
	Baird's		Cinnamon
	Man-o'-war-bird		Shoveller
5	Heron, Great Blue		Duck, Wood
	Egret, American		Redhead

No.		No.	
	Duck, Ring-necked		Plover, Mountain
	Canvas-back	25	Killdeer
	Duck, Greater Scaup		Golden
	Lesser Scaup	10	Black-bellied
	Golden-eye, American		Surf-bird
	Barrow's		Turnstone, Ruddy
	Bufflehead		Black
	Old-squaw		Snipe, Wilson's
	Duck, Harlequin	1	Curlew, Long-billed
	Scoter, White-winged	1	Hudsonian
	Surf	1	Sandpiper, Spotted
	American		Solitary
	Duck, Ruddy		Tattler, Wandering
	Merganser, Hooded	100	Willet
	American	3	Yellow-legs, Greater
	Red-breasted		Lesser
	Vulture, Turkey		Knot
	Condor, California		Sandpiper, Aleutian
	Kite, White-tailed		Pectoral
	Goshawk		Baird's
	Hawk, Sharp-shinned		Least
	Cooper's		Red-backed
	Red-tailed	3	Dowitcher, Long-bill. (?)
	Red-bellied		Sandpiper, Western
	Swainson's		Godwit, Marbled
	Am. Rough-leg.		Sanderling
	Fer. Rough-leg.		Avocet
	Harris's		Stilt, Black-necked
	Eagle, Golden		Phalarope, Red
	Bald	1	Wilson's
	Hawk, Marsh		Northern
	Osprey		Jaeger, Pomarine
	Falcon, Prairie		Parasitic
	Hawk, Duck		Long-tailed
	Pigeon		Gull, Glaucous
	Sparrow		Glaucous-winged
	Grouse, Sooty		Western
	Franklin's		Herring
	Ruffed		California
	Ptarmigan, Wh.-tailed	1	Ring-billed
	Grouse, Sharp-tailed		Short-billed
	Sage Hen		Laughing
	Partridge, Eur.		Bonaparte's
	Bob-white		Kittiwake, Pac.
	Quail, California		Gull, Sabine's
	Gambel's		Tern, Gull-billed
	Mountain	50	Forster's
	Pheasant, Ring-n.		Common
	Crane, Little Brown		Arctic
	Sandhill		Brown's
	Rail, Cal. Clapper		Royal
	Virginia		Elegant
	Sora		Caspian
	Yellow		Black
	Farallon		Murre, California
	Gallinule, Florida		Guillemot, Pigeon
	Coot		Murrelet, Marbled
	Oyster-catcher, Black		Xantus's
	Plover, Snowy		Craveri's
8	Semipalmated		Ancient

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No.	
	Auklet, Cassin's
	Paroquet
	Rhinoceros
	Puffin, Horned
	Tufted
12	Dove, Mourning
	Chinese Spotted
	Ringed Turtle
	White-winged
	Mexican Ground
	Cuckoo, California
	Road-runner
	Owl, Barn
	Screech
	Flam. Screech
	Horned
	Snowy
	Hawk
	Pygmy
	Elf
	Burrowing
	Spotted
	Great Gray
	Long-eared
	Short-eared
	Saw-whet
	Poor-will
	Nighthawk
	Texas
	Swift, Black
	Vaux's
	White-throated
	Hummingbird, Costa's
	Black-chinned
	Anna's
	Broad-tailed
	Rufous
	Allen's
	Calliope
	Kingfisher, Belted
	Flicker, Red-shafted
	Gilded
	Woodpecker, Pileated
	Gila
	California
	Lewis's
	Sapsucker, Red-naped
	Red-breasted
	Williamson's
	Woodpecker, Hairy
	Downy
	Cactus
	Nuttall's
	White-headed
	Arc. Three-toed
	Am. Three-toed
	Kingbird, Eastern
	Western
	Cassin's
	Flycatcher, Ash-thr.

No.	
	Phoebe, Black
	Say's
	Flycatcher, Little
	Hammond's
	Wright's
	Gray
	Western
	Pewee, Western Wood
	Flycatcher, Olive-s.
	Vermilion
5	Lark, Horned
	Swallow, Violet-green
	Tree
	Bank
	Rough-winged
10	Barn
1(?)	Cliff
	Martin, Purple
	Jay, Rocky Mt.
	Oregon
	Steller's (Crested)
	California
	Santa Cruz
	Magpie, American
	Yellow-billed
	Raven, American
	Crow
	Jay, Piñon
	Nutcracker, Clark's
	Chickadee, Black-c.
	Mountain
3	Chestnut-backed
	Titmouse, Plain
	Verdin
	Bush-Tit
	Nuthatch, Slender-b.
	Red-breasted
	Pygmy
	Creeper
	Wren-Tit
	Dipper
	Wren, House
	Winter
	Bewick's
	Cactus
	Marsh
	Canyon
	Rock
	Mockingbird
	Catbird
	Thrasher, Bendire's
	California
	Leconte's
	Crissal
	Sage
2	Robin
	Thrush, Varied
	Hermit
	Russet-backed
	Willow

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	Gnatcatcher, Western
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	Waxwing, Bohemian
	Cedar
	Phainopepla
	Shrike, Northwestern
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	Vireo, Hutton's
	Least
	Gray
	Cassin's
	Red-eyed
	Warbling
	Warbler, Bl. and Wh.
	Lutescent
	Dusky
	Calaveras
	Lucy's
	Yellow
	Myrtle
	Audubon's
	Black-thr. Gray
	Townsend's
	Hermit
	Water-Thrush, Grin.
	Warbler, Macgilliv.
	Yellow-throat
	Chat, Long-tailed
	Warbler, Pileolated
	Redstart, American
2	Sparrow, English
	Bobolink
15	Meadowlark, Western
	Blackbird, Yellow-h.
	Red-wing
	Bicolored
	Tricolored
	Oriole, Ariz. Hooded
	Scott's
	Bullock's
20	Blackbird, Brewer's
	Cowbird

No.	
	Tanager, Western
	Cooper's
	Grosbeak, Bl.-headed
	Blue
	Bunting, Lazuli
	Grosbeak, Evening
	Finch, Cal. Purple
	Cassin's Purple
6	House
	Grosbeak, Pine
	Finch, Rosy
	Redpoll
	Siskin, Pine
	Goldfinch
	Green-backed
	Lawrence's
	Crossbill, Red
	White-winged
	Towhee, Green-tailed
	Spotted
	Brown
	Abert's
	Bunting, Lark
6(?)	Sparrow, Savannah
	Belding's
	Large-billed
	Grasshopper
	Vesper
	Lark
	Rufous-crowned
	Desert
	Bell's
	Sage
	Junco, Slate-colored
	Oregon
	Gray-headed
	Sparrow, Tree
	Chipping
	Brewer's
	Black-chinned
	Gambel's
	Puget Sound
	Nuttall's
	Golden-crowned
	White-throated
	Fox
	Lincoln's
	Song
	Bunting, Snow

Accidentals.....

Total Species.....29.....Individuals.....

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L. ZIEGLER
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Observer ZIEGLER

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Date 24 JULY 54 Time 8:00 AM. - 2:00 P.M.

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	Horned		Least
	Eared		Ibis, Wood
	Western		Wh.-faced Glossy
	Pied-billed		Swan, Whistling
	Albatross, Black-f.		Goose, Canada
	Short-tailed		Hutchins's
	Shearwater, Sl.-bill.		Cackling
	Sooty		Brant, Black
	Black-vented		Goose, Emperor
	Pink-footed		White-fronted
	Fulmar, Pacific		Snow
	Petrel, Fork-tailed		Ross's
	Beal's		Tree-duck, Fulvous
	Black	1 (?)	Mallard ♂
	Ashy		Gadwall
	Socorro		Widgeon, European
	Pelican, White		Baldpate
	California Brown		Pintail
	Cormorant, Farallon		Teal, Green-winged
10	Brandt's		Blue-winged
	Baird's		Cinnamon
	Man-o'-war-bird		Shoveller
1	Heron, Great Blue		Duck, Wood
	Egret, American		Redhead

No.		No.	
	Duck, Ring-necked		Plover, Mountain
1	Canvas-back (HURT?)	10	Killdeer
	Duck, Greater Scaup		Golden
	Lesser Scaup	25	Black-bellied
	Golden-eye, American		Surf-bird
	Barrow's		Turnstone, Ruddy
	Bufflehead		Black
	Old-squaw		Snipe, Wilson's
	Duck, Harlequin		Curlew, Long-billed
	Scoter, White-winged	2 (?)	Hudsonian
	Surf		Sandpiper, Spotted
	American		Solitary
	Duck, Ruddy		Tattler, Wandering
	Merganser, Hooded	30	Willet
	American	4	Yellow-legs, Greater
	Red-breasted		Lesser
4	Vulture, Turkey		Knot
	Condor, California		Sandpiper, Aleutian
	Kite, White-tailed		Pectoral
	Goshawk		Baird's
	Hawk, Sharp-shinned		Least
	Cooper's		Red-backed
	Red-tailed	1	Dowitcher, Long-bill.
	Red-bellied	50 (?)	Sandpiper, Western
	Swainson's	1	Godwit, Marbled
	Am. Rough-leg.		Sanderling
	Fer. Rough-leg.		Avocet
	Harris's		Stilt, Black-necked
	Eagle, Golden		Phalarope, Red
	Bald		Wilson's
	Hawk, Marsh		Northern
	Osprey		Jaeger, Pomarine
	Falcon, Prairie		Parasitic
	Hawk, Duck		Long-tailed
	Pigeon		Gull, Glaucous
2	Sparrow		Glaucous-winged
	Grouse, Sooty	1	Western
	Franklin's		Herring
	Ruffed	6	California
	Ptarmigan, Wh.-tailed	20	Ring-billed
	Grouse, Sharp-tailed		Short-billed
	Sage Hen		Laughing
	Partridge, Eur.		Bonaparte's
	Bob-white		Kittiwake, Pac.
	Quail, California		Gull, Sabine's
	Gambel's		Tern, Gull-billed
	Mountain	30	Forster's
	Pheasant, Ring-n.		Common
	Crane, Little Brown		Arctic
	Sandhill		Brown's
	Rail, Cal. Clapper		Royal
	Virginia		Elegant
	Sora		Caspian
	Yellow		Black
	Farallon		Murre, California
	Gallinule, Florida		Guillemot, Pigeon
	Coot		Murrelet, Marbled
	Oyster-catcher, Black		Xantus's
	Plover, Snowy		Craveri's
5	Semipalmated		Ancient

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No.	
	Auklet, Cassin's
	Paroquet
	Rhinoceros
	Puffin, Horned
	Tufted
1	Dove, Mourning
	Chinese Spotted
	Ringed Turtle
	White-winged
	Mexican Ground
	Cuckoo, California
	Road-runner
	Owl, Barn
	Screech
	Flam. Screech
	Horned
	Snowy
	Hawk
	Pygmy
	Elf
	Burrowing
	Spotted
	Great Gray
	Long-eared
	Short-eared
	Saw-whet
	Poor-will
	Nighthawk
	Texas
	Swift, Black
	Vaux's
	White-throated
	Hummingbird, Costa's
	Black-chinned
	Anna's
	Broad-tailed
	Rufous
	Allen's
	Calliope
	Kingfisher, Belted
	Flicker, Red-shafted
	Gilded
	Woodpecker, Pileated
	Gila
	California
	Lewis's
	Sapsucker, Red-naped
	Red-breasted
	Williamson's
	Woodpecker, Hairy
	Downy
	Cactus
	Nuttall's
	White-headed
	Arc. Three-toed
	Am. Three-toed
	Kingbird, Eastern
	Western
	Cassin's
	Flycatcher, Ash-thr.

No.	
	Phoebe, Black
	Say's
	Flycatcher, Little
	Hammond's
	Wright's
	Gray
	Western
	Pewee, Western Wood
	Flycatcher, Olive-s.
	Vermilion
	Lark, Horned
	Swallow, Violet-green
	Tree
	Bank
	Rough-winged
25	Barn
25	Cliff
	Martin, Purple
	Jay, Rocky Mt.
	Oregon
	Steller's (Crested)
	California
	Santa Cruz
	Magpie, American
	Yellow-billed
	Raven, American
	Crow
	Jay, Piñon
	Nutcracker, Clark's
	Chickadee, Black-c.
	Mountain
	Chestnut-backed
	Titmouse, Plain
	Verdin
	Bush-Tit
	Nuthatch, Slender-b.
	Red-breasted
	Pygmy
	Creeper
	Wren-Tit
	Dipper
	Wren, House
	Winter
	Bewick's
	Cactus
	Marsh
	Canyon
	Rock
	Mockingbird
	Catbird
	Thrasher, Bendire's
	California
	Leconte's
	Crissal
	Sage
2	Robin
	Thrush, Varied
	Hermit
	Russet-backed
	Willow

No.	
	Bluebird, Western
	Mountain
	Solitaire, Townsend's
	Gnatcatcher, Western
	Plumbeous
	Black-tailed
	Kinglet, Golden-cr.
	Ruby-crowned
	Pipit, American
	Waxwing, Bohemian
	Cedar
	Phainopepla
	Shrike, Northwestern
3	California
	Vireo, Hutton's
	Least
	Gray
	Cassin's
	Red-eyed
	Warbling
	Warbler, Bl. and Wh.
	Lutescent
	Dusky
	Calaveras
	Lucy's
	Yellow
	Myrtle
	Audubon's
	Black-thr. Gray
	Townsend's
	Hermit
	Water-Thrush, Grin.
	Warbler, Macgilliv.
	Yellow-throat
	Chat, Long-tailed
	Warbler, Pileolated
	Redstart, American
2	Sparrow, English
	Bobolink
15	Meadowlark, Western
	Blackbird, Yellow-h.
	Red-wing
	Bicolored
	Tricolored
	Oriole, Ariz. Hooded
	Scott's
	Bullock's
6	Blackbird, Brewer's
	Cowbird

No.	
	Tanager, Western
	Cooper's
	Grosbeak, Bl.-headed
	Blue
	Bunting, Lazuli
	Grosbeak, Evening
	Finch, Cal. Purple
	Cassin's Purple
40	House
	Grosbeak, Pine
	Finch, Rosy
	Redpoll
	Siskin, Pine
1	Goldfinch
	Green-backed
	Lawrence's
	Crossbill, Red
	White-winged
	Towhee, Green-tailed
	Spotted
31?	Brown
	Abert's
	Bunting, Lark
3	Sparrow, Savannah
	Belding's
	Large-billed
	Grasshopper
	Vesper
	Lark
	Rufous-crowned
	Desert
	Bell's
	Sage
	Junco, Slate-colored
	Oregon
	Gray-headed
	Sparrow, Tree
	Chipping
	Brewer's
	Black-chinned
	Gambel's
	Puget Sound
	Nuttall's
	Golden-crowned
	White-throated
	Fox
	Lincoln's
	Song
	Bunting, Snow

Accidentals.....

Total Species.....31.....Individuals.....

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10 for $.25 50 for $1.00

Printed in U. S.

ZIEGLER
1954

JOURNAL

AUDUBON
DAILY FIELD CARD
OF
BIRDS

Occurring in the

PACIFIC STATES

(California, Oregon and Washington)

bserver ZIEGLER

ocality SAN BRUNO HILLS, CALIF

ate 1 AUG '54 Time 8:00AM - 2:30PM

Veather COOL CLOUDY AM WARM PM CLEAR Wind +

Subspecies, with the exception of a few forms, easily recog-
zable in the field, are omitted.

*Put a more detailed account of today's observations in a sep-
rate notebook. Maybe you have seen something new!*

No.		No.	
	Loon, Common		Egret, Brewster's
	Pacific		Heron, Anth. Green
	Red-throated		Black-cr. Night
	Grebe, Holboell's		Bittern, American
	Horned		Least
	Eared		Ibis, Wood
	Western		Wh.-faced Glossy
	Pied-billed		Swan, Whistling
	Albatross, Black-f.		Goose, Canada
	Short-tailed		Hutchins's
	Shearwater, Sl.-bill.		Cackling
	Sooty		Brant, Black
	Black-vented		Goose, Emperor
	Pink-footed		White-fronted
	Fulmar, Pacific		Snow
	Petrel, Fork-tailed		Ross's
	Beal's		Tree-duck, Fulvous
	Black		Mallard
	Ashy		Gadwall
	Socorro		Widgeon, European
	Pelican, White		Baldpate
	California Brown		Pintail
	Cormorant, Farallon		Teal, Green-winged
	Brandt's		Blue-winged
	Baird's		Cinnamon
	Man-o'-war-bird		Shoveller
	Heron, Great Blue		Duck, Wood
	Egret, American		Redhead

No.		No.	
	Duck, Ring-necked		Plover, Mountain
	Canvas-back	2	Killdeer
	Duck, Greater Scaup		Golden
	Lesser Scaup		Black-bellied
	Golden-eye, American		Surf-bird
	Barrow's		Turnstone, Ruddy
	Bufflehead		Black
	Old-squaw		Snipe, Wilson's
	Duck, Harlequin		Curlew, Long-billed
	Scoter, White-winged		Hudsonian
	Surf		Sandpiper, Spotted
	American		Solitary
	Duck, Ruddy		Tattler, Wandering
	Merganser, Hooded		Willet
	American		Yellow-legs, Greater
	Red-breasted		Lesser
3	Vulture, Turkey		Knot
	Condor, California		Sandpiper, Aleutian
	Kite, White-tailed		Pectoral
	Goshawk		Baird's
	Hawk, Sharp-shinned		Least
1	Cooper's (?)		Red-backed
1	Red-tailed (CALL)		Dowitcher, Long-bill.
	Red-bellied		Sandpiper, Western
	Swainson's		Godwit, Marbled
	Am. Rough-leg.		Sanderling
	Fer. Rough-leg.		Avocet
	Harris's		Stilt, Black-necked
	Eagle, Golden		Phalarope, Red
	Bald		Wilson's
	Hawk, Marsh		Northern
	Osprey		Jaeger, Pomarine
	Falcon, Prairie		Parasitic
	Hawk, Duck		Long-tailed
	Pigeon		Gull, Glaucous
2	Sparrow		Glaucous-winged
	Grouse, Sooty		Western
	Franklin's		Herring
	Ruffed		California
	Ptarmigan, Wh.-tailed		Ring-billed
	Grouse, Sharp-tailed		Short-billed
	Sage Hen		Laughing
	Partridge, Eur.		Bonaparte's
	Bob-white		Kittiwake, Pac.
12	Quail, California		Gull, Sabine's
	Gambel's		Tern, Gull-billed
	Mountain		Forster's
	Pheasant, Ring-n.		Common
	Crane, Little Brown		Arctic
	Sandhill		Brown's
	Rail, Cal. Clapper		Royal
	Virginia		Elegant
	Sora		Caspian
	Yellow		Black
	Farallon		Murre, California
	Gallinule, Florida		Guillemot, Pigeon
	Coot		Murrelet, Marbled
	Oyster-catcher, Black		Xantus's
	Plover, Snowy		Craveri's
	Semipalmated		Ancient

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No.		No.	
	Auklet, Cassin's		Phoebe, Black
	Paroquet		Say's
	Rhinoceros		Flycatcher, Little
	Puffin, Horned		Hammond's
	Tufted		Wright's
5	Dove, Mourning		Gray
	Chinese Spotted		Western
	Ringed Turtle		Pewee, Western Wood
	White-winged		Flycatcher, Olive-s.
	Mexican Ground		Vermilion
	Cuckoo, California	1	Lark, Horned (NOTE)
	Road-runner		Swallow, Violet-green
	Owl, Barn (?) PELLET & FEATHERS		Tree
	Screech		Bank
	Flam. Screech		Rough-winged
	Horned		Barn
	Snowy	1	Cliff
	Hawk		Martin, Purple
	Pygmy		Jay, Rocky Mt.
	Elf		Oregon
	Burrowing	2	Steller's (Crested)
	Spotted		California
	Great Gray		Santa Cruz
	Long-eared		Magpie, American
	Short-eared		Yellow-billed
	Saw-whet		Raven, American
	Poor-will		Crow
	Nighthawk		Jay, Piñon
	Texas		Nutcracker, Clark's
	Swift, Black		Chickadee, Black-c.
	Vaux's		Mountain
	White-throated	5	Chestnut-backed
	Hummingbird, Costa's		Titmouse, Plain
	Black-chinned		Verdin
	Anna's	6	Bush-Tit
	Broad-tailed		Nuthatch, Slender-b.
	Rufous		Red-breasted
2	Allen's		Pygmy
	Calliope		Creeper
	Kingfisher, Belted	6	Wren-Tit
	Flicker, Red-shafted		Dipper
	Gilded		Wren, House
	Woodpecker, Pileated		Winter
	Gila	2	Bewick's ?
	California		Cactus
	Lewis's		Marsh
	Sapsucker, Red-naped		Canyon
	Red-breasted		Rock
	Williamson's		Mockingbird
	Woodpecker, Hairy		Catbird
	Downy		Thrasher, Bendire's
	Cactus		California
	Nuttall's		Leconte's
	White-headed		Crissal
	Arc. Three-toed		Sage
	Am. Three-toed	2	Robin
	Kingbird, Eastern		Thrush, Varied
	Western		Hermit
	Cassin's		Russet-backed
	Flycatcher, Ash-thr.		Willow

No.		No.	
	Bluebird, Western		Tanager, Western
	Mountain		Cooper's
	Solitaire, Townsend's		Grosbeak, Bl.-headed
	Gnatcatcher, Western		Blue
	Plumbeous		Bunting, Lazuli
	Black-tailed		Grosbeak, Evening
	Kinglet, Golden-cr.		Finch, Cal. Purple
	Ruby-crowned		Cassin's Purple
	Pipit, American	15	House
	Waxwing, Bohemian		Grosbeak, Pine
	Cedar		Finch, Rosy
	Phainopepla		Redpoll
	Shrike, Northwestern	25	Siskin, Pine
2	California	13	Goldfinch
	Vireo, Hutton's		Green-backed
	Least		Lawrence's
	Gray		Crossbill, Red
	Cassin's		White-winged
	Red-eyed		Towhee, Green-tailed
	Warbling		Spotted
	Warbler, Bl. and Wh.	2	Brown
	Lutescent		Abert's
	Dusky		Bunting, Lark
	Calaveras		Sparrow, Savannah
	Lucy's		Belding's
	Yellow		Large-billed
	Myrtle		Grasshopper
	Audubon's		Vesper
	Black-thr. Gray		Lark
	Townsend's		Rufous-crowned
	Hermit		Desert
	Water-Thrush, Grin.		Bell's
	Warbler, Macgilliv.		Sage
	Yellow-throat		Junco, Slate-colored
	Chat, Long-tailed	10	Oregon
	Warbler, Pileolated		Gray-headed
	Redstart, American		Sparrow, Tree
	Sparrow, English		Chipping
	Bobolink		Brewer's
10	Meadowlark, Western		Black-chinned
	Blackbird, Yellow-h.		Gambel's
	Red-wing		Puget Sound
	Bicolored	10	Nuttall's (?)
	Tricolored		Golden-crowned
	Oriole, Ariz. Hooded		White-throated
	Scott's		Fox
	Bullock's		Lincoln's
	Blackbird, Brewer's		Song
	Cowbird		Bunting, Snow

2 BLACK-TAILED JACKRABBIT (LEPUS CALIFORNICUS)

Accidentals.....

Total Species.....23.....Individuals.....

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bserver ZIEGLER

ocality SAN BRUNO HILLS, CALIF.

ate 2 AUG '54 Time 9:30 AM - 4:00 PM.

Veather CLEAR, HOT Wind –

Subspecies, with the exception of a few forms, easily recogzable in the field, are omitted.

Put a more detailed account of today's observations in a separate notebook. Maybe you have seen something new!

No.		No.	
	Loon, Common		Egret, Brewster's
	Pacific		Heron, Anth. Green
	Red-throated		Black-cr. Night
	Grebe, Holboell's		Bittern, American
	Horned		Least
	Eared		Ibis, Wood
	Western		Wh.-faced Glossy
3	Pied-billed		Swan, Whistling
	Albatross, Black-f.		Goose, Canada
	Short-tailed		Hutchins's
	Shearwater, Sl.-bill.		Cackling
	Sooty		Brant, Black
	Black-vented		Goose, Emperor
	Pink-footed		White-fronted
	Fulmar, Pacific		Snow
	Petrel, Fork-tailed		Ross's
	Beal's		Tree-duck, Fulvous
	Black		Mallard
	Ashy		Gadwall
	Socorro		Widgeon, European
	Pelican, White		Baldpate
	California Brown		Pintail
	Cormorant, Farallon		Teal, Green-winged
	Brandt's		Blue-winged
	Baird's		Cinnamon
	Man-o'-war-bird		Shoveller
	Heron, Great Blue		Duck, Wood
	Egret, American		Redhead

No.		No.	
	Duck, Ring-necked		Plover, Mountain
	Canvas-back		Killdeer
	Duck, Greater Scaup		Golden
	Lesser Scaup		Black-bellied
	Golden-eye, American		Surf-bird
	Barrow's		Turnstone, Ruddy
	Bufflehead		Black
	Old-squaw		Snipe, Wilson's
	Duck, Harlequin		Curlew, Long-billed
	Scoter, White-winged		Hudsonian
	Surf		Sandpiper, Spotted
	American		Solitary
	Duck, Ruddy		Tattler, Wandering
	Merganser, Hooded		Willet
	American		Yellow-legs, Greater
	Red-breasted		Lesser
2	Vulture, Turkey		Knot
	Condor, California		Sandpiper, Aleutian
	Kite, White-tailed		Pectoral
	Goshawk		Baird's
	Hawk, Sharp-shinned		Least
	Cooper's		Red-backed
	Red-tailed		Dowitcher, Long-bill.
	Red-bellied		Sandpiper, Western
	Swainson's		Godwit, Marbled
	Am. Rough-leg.		Sanderling
	Fer. Rough-leg.		Avocet
	Harris's		Stilt, Black-necked
	Eagle, Golden		Phalarope, Red
	Bald		Wilson's
	Hawk, Marsh		Northern
	Osprey		Jaeger, Pomarine
	Falcon, Prairie		Parasitic
	Hawk, Duck		Long-tailed
	Pigeon		Gull, Glaucous
5	Sparrow		Glaucous-winged
	Grouse, Sooty		Western
	Franklin's		Herring
	Ruffed	6	California ?
	Ptarmigan, Wh.-tailed		Ring-billed
	Grouse, Sharp-tailed		Short-billed
	Sage Hen		Laughing
	Partridge, Eur.		Bonaparte's
	Bob-white		Kittiwake, Pac.
4	Quail, California		Gull, Sabine's
	Gambel's		Tern, Gull-billed
	Mountain		Forster's
	Pheasant, Ring-n.		Common
	Crane, Little Brown		Arctic
	Sandhill		Brown's
	Rail, Cal. Clapper		Royal
	Virginia		Elegant
	Sora		Caspian
	Yellow		Black
	Farallon		Murre, California
	Gallinule, Florida		Guillemot, Pigeon
	Coot		Murrelet, Marbled
	Oyster-catcher, Black		Xantus's
	Plover, Snowy		Craveri's
	Semipalmated		Ancient

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No.		No.	
	Auklet, Cassin's		Phoebe, Black
	Paroquet		Say's
	Rhinoceros		Flycatcher, Little
	Puffin, Horned		Hammond's
	Tufted		Wright's
3	Dove, Mourning		Gray
	Chinese Spotted		Western
	Ringed Turtle		Pewee, Western Wood
	White-winged		Flycatcher, Olive-s.
	Mexican Ground		Vermilion
	Cuckoo, California		Lark, Horned
	Road-runner		Swallow, Violet-green
	Owl, Barn		Tree
	Screech		Bank
	Flam. Screech		Rough-winged
	Horned		Barn
	Snowy	5	Cliff
	Hawk		Martin, Purple
	Pygmy		Jay, Rocky Mt.
	Elf		Oregon
	Burrowing	1	Steller's (Crested) ?
	Spotted		California
	Great Gray		Santa Cruz
	Long-eared		Magpie, American
	Short-eared		Yellow-billed
	Saw-whet		Raven, American
	Poor-will		Crow
	Nighthawk		Jay, Piñon
	Texas		Nutcracker, Clark's
	Swift, Black		Chickadee, Black-c.
	Vaux's		Mountain
	White-throated	3	Chestnut-backed
	Hummingbird, Costa's		Titmouse, Plain
	Black-chinned		Verdin
1	Anna's ?	6	Bush-Tit
	Broad-tailed		Nuthatch, Slender-b.
	Rufous		Red-breasted
	Allen's		Pygmy
	Calliope		Creeper
	Kingfisher, Belted	3	Wren-Tit
	Flicker, Red-shafted		Dipper
	Gilded		Wren, House
	Woodpecker, Pileated		Winter
	Gila	4	Bewick's ?
	California		Cactus
	Lewis's		Marsh
	Sapsucker, Red-naped		Canyon
	Red-breasted		Rock
	Williamson's		Mockingbird
	Woodpecker, Hairy		Catbird
1	Downy		Thrasher, Bendire's
	Cactus		California
	Nuttall's		Leconte's
	White-headed		Crissal
	Arc. Three-toed		Sage
	Am. Three-toed		Robin
	Kingbird, Eastern		Thrush, Varied
	Western		Hermit
	Cassin's		Russet-backed
	Flycatcher, Ash-thr.		Willow

No.		No.	
	Bluebird, Western		Tanager, Western
	Mountain		Cooper's
	Solitaire, Townsend's		Grosbeak, Bl.-headed
	Gnatcatcher, Western		Blue
	Plumbeous		Bunting, Lazuli
	Black-tailed		Grosbeak, Evening
	Kinglet, Golden-cr.		Finch, Cal. Purple
	Ruby-crowned		Cassin's Purple
	Pipit, American	10	House
	Waxwing, Bohemian		Grosbeak, Pine
	Cedar		Finch, Rosy
	Phainopepla		Redpoll
	Shrike, Northwestern		Siskin, Pine
	California	12	Goldfinch
	Vireo, Hutton's		Green-backed
	Least		Lawrence's
	Gray		Crossbill, Red
	Cassin's		White-winged
	Red-eyed		Towhee, Green-tailed
	Warbling	3	Spotted
	Warbler, Bl. and Wh.		Brown
	Lutescent		Abert's
	Dusky		Bunting, Lark
	Calaveras		Sparrow, Savannah
	Lucy's		Belding's
	Yellow		Large-billed
	Myrtle		Grasshopper
	Audubon's		Vesper
	Black-thr. Gray		Lark
	Townsend's		Rufous-crowned
	Hermit		Desert
	Water-Thrush, Grin.		Bell's
	Warbler, Macgilliv.		Sage
	Yellow-throat		Junco, Slate-colored
	Chat, Long-tailed		Oregon
	Warbler, Pileolated		Gray-headed
	Redstart, American		Sparrow, Tree
	Sparrow, English		Chipping
	Bobolink		Brewer's
1	Meadowlark, Western		Black-chinned
	Blackbird, Yellow-h.		Gambel's
	Red-wing	1	Puget Sound ?
	Bicolored		Nuttall's
	Tricolored		Golden-crowned
	Oriole, Ariz. Hooded		White-throated
	Scott's		Fox
	Bullock's		Lincoln's
	Blackbird, Brewer's		Song
	Cowbird		Bunting, Snow

3 DEER (1 M) CRYSTAL SPRINGS LAKE, 1 DEER MILLS QUAR

Accidentals.....

Total Species.....19.....Individuals.....

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MAY 10 – Z-58 ACROCEPHALUS ARUNDINACEUS ♀ (O-HO-YOSHI-KIRI). NOTED BY HIROSHI NAGAMI. OVARY ENLARGED. STOMACH CONTENTS – REMAINS OF FEW SMALL BEETLES. FEET & LEGS BROWN. UPPER MANDIBLE BROWN, LOWER MANDIBLE FLESH-COLORED. SKIN DRIED OVERNIGHT OVER BANKED HIBACHI.

JUNE 2 ABOARD U.S.S. BUCKNER BETWEEN YOKOHAMA, JAPAN & SAN FRANCISCO, CALIF.
PUFFINUS GRISEUS GMELIN (?) (10) SEEN 2 DAYS OUT OF JAPAN. DIOMEDEA NIGRIPES – APPROXIMATELY 12 PER DAY, DIOMEDEA IMMUTABILIS (??) – 2 OR 3 PER DAY FROM THE 22ND TO 25TH OF MAY.
FLOCKS OF MURRELETS – MOST PROBABLY ENDOMYCHURA HYPOLEUCA – SEEN (ON WATER) 2 HOURS OUT OF GOLDEN GATE, (ABOUT 600-700 BIRDS) BLACK CROWN & BACK & SHOWING WHITE UNDERPARTS, THROAT & CHIN WHEN IN FLIGHT.

AUG 28 SAN BRUNO CITY PARK, SAN MATEO CO, CALIF.
SET OUT 10 MOUSE TRAPS LAST NIGHT ALONG DRY CREEK BED IN BACK OF PARK. PEANUT BUTTER BAIT.
– Z-10 M MICROTUS CALIFORNICUS ♀ IN BRUSH PILE. PARASITES COLLECTED. NO EMB'S NO SCARS. STOMACH – VEG. MATTER.
– Z-11 M RETHRODONTOMYS MEGALOTIS ♂ IN BRUSH PILE. STOMACH – VEGETABLE MATTER TESTES – 00

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AUG 30 HOME, SAN BRUNO, SAN MATEO CO, CALIF.
— Z-12M MUS MUSCULUS _____ ♂
ON PEANUT BUTTER. GREY UNDERPARTS.

SEPT 4 SAN BRUNO CITY PARK, SAN MATEO CO, CALIF.
— Z-13M MICROTUS CALIFORNICUS _____
♀ BRUSHY CREEK BED BEHIND PARK. BAIT PEANUT BUTTER & BACON GREASE. STOMACH CONTENTS - VEG. MATTER. 2 EMBS OR SCARS LEFT SIDE, 1 RIGHT SIDE.
— Z-14M PEROMYSCUS TRUEI _____
♂ IN BRUSH PILE. STOMACH — VEGETABLE MATTER & A LITTLE HAIR (IT'S OWN?)
— Z-15M PEROMYSCUS TRUEI _____
♂ IN BRUSHY GULLY. STOMACH - VEG. MATTER.
— Z-16M RETHIRODONTOMYS MEGALOTIS
_____. ♂ ON DRY HILLSIDE IN EUCALYPTUS GROVE ½ MI W. OF PARK. BACK SKIN BROWN. PARASITES COLLECTED. STOMACH - VEG. MATTER.

SEPT 5 HOME, SAN BRUNO, SAN MATEO CO, CALIF.
— Z-17M MUS MUSCULUS _____ ♀
IN KITCHEN ON MARGERINE. GREY BENEATH. 2 EMB'S RIGHT SIDE, 4 LEFT SIDE.

SEPT 5 1 M. EAST OF SAN BRUNO, SAN MATEO CO, CALIF.
SET OUT 17 MOUSE TRAPS BAITED WITH PEANUT BUTTER IN CUT-OVER HAY FIELD. 3 GROUPS OF TRAPS SET IN GULLY (DRIED UP & FILLED WITH SALICORNIA SP.), IN & AROUND STACKS OF HAY BALES, & ALONG SLOUGH OF STAGNANT WATER BORDERED WITH SALICORNIA SP.

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SEPT 5. (CONT.) – Z-18M MUS MUSCULUS ♀ IN DRIED-UP GULLY. NO EMBS. GREYISH BENEATH. STOMACH - VEG. MATTER.

Z-19M MICROTUS CALIFORNICUS ♂ IN DRIED-UP GULLY. PARASITES. STOMACH - VEG. MATTER.

Z-20M MICROTUS CALIFORNICUS _____ ♂ BESIDE WATER-FILLED SLOUGH. IN SALICORNIA ?

Z-21M MICROTUS CALIFORNICUS _____ ♀ BESIDE WATER-FILLED SLOUGH IN SALICORNIA ? SPECIMEN PARTLY EATEN IN TRAP. STOMACH - VEG. MATTER. NO EMB'S OR SCARS.

TRAPS SET AROUND BALED HAY AND NOTHING IN THEM.

SEPT 6. SAN BRUNO CITY PARK, SAN MATEO CO, CALIF.

SET 20 MOUSE TRAPS. ALONG DRIED-UP CREEK BED BACK OF PARK. BAIT - PEANUT BUTTER & GREASE.

Z-22M PEROMYSCUS CALIFORNICUS _____ ♀ IN BRUSH PILE. STOMACH - VEG. MATTER. MAMMAE ENLARGED, 2 PAIR. 1 EMB. RT SIDE, 1 LEFT SIDE (COLL.) PARASITES.

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SEPT 12. SAN BRUNO CITY PARK, SAN MATEO CO., CALIF.
SET 20 MOUSE TRAPS ALONG CREEK BED BACK OF PARK IN WILLOW THICKETS, BRUSH HEAPS & BLACKBERRY THICKETS.

Z-23M MICROTUS CALIFORNICUS
♂ IN BRUSH HEAP.
STOMACH - VEG MATTER. PARASITES.

Z-24M PEROMYSCUS CALIFORNICUS
♀ IN BRUSHY GULLY.
PARASITES. STOMACH - VEG. MATTER.
2 WELL-DEVELOPED EMB'S LEFT SIDE,
4 SCARS RIGHT SIDE (COLL.)

SEPT 13. SAN BRUNO CITY PARK, SAN MATEO CO., CALIF. (½ MI W. PARK)
SET OUT 20 MOUSE TRAPS IN CREEK BED LEADING UP INTO HILLS WEST OF SAN BRUNO. BAIT - PEANUT BUTTER. TRAPS USUALLY SET IN 3'S UNDER SHRUBS OR IN BRUSH PILES.

Z-25M PEROMYSCUS CALIFORNICUS
♂ IN BRUSH PILE.
STOMACH - VEG. MATTER & A LITTLE HAIR (IT'S OWN?). PARASITES.

Z-26M REITHRODONTOMYS MEGALOTIS
♂ ON WOODED CREEK BANK.
STOMACH - VEG. MATTER.

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SEPT 13 (CONT) Z-27M PEROMYSCUS TRUEI _____
♂ BRUSH PILE IN CREEK BED. STOMACH - VEG. MATTER.

SEPT. 19 1 MI. W. SAN BRUNO (ALONG CREEK BED BEHIND PARK), SAN MATEO CO., CALIF.
20 MOUSE TRAPS SET OUT LAST NIGHT IN GROUPS OF 3. BAIT - PEANUT BUTTER & GREASE.

Z-28M REITHRODONTOMYS MEGALOTIS _____ ♀ ON BRUSHY HILLSIDE (MOSTLY QUERCUS SP.?) STOMACH - VEG MATTER. NO EMBRYOS. CAUGHT 1 HOUR AFTER SETTING OUT TRAP LAST EVENING.

Z-29M REITHRODONTOMYS MEGALOTIS _____ ♀ THICKET ON GRASSY HILLSIDE. STOMACH - VEG MATTER & A LITTLE HAIR (ITS OWN?). NO EMBRYOS.

SEPT 20. SAN BRUNO CITY PARK & CREEK TO ½ MI W OF PARK, SAN MATEO CO., CALIF.
SET OUT 20 MOUSE TRAPS IN THICKETS, ETC. & ALSO 6 OF THEM IN A MARSHY SPOT THAT LOOKED SWELL FOR SHREWS - RUNWAYS. UNDER OLD LOGS & BOARDS & SUCH, BUT NO TRAPS EVEN TOUCHED THERE.

Z-30M PEROMYSCUS TRUEI _____ ♀ IMM.? IN BRUSH HEAP STOMACH - EMPTY. NO EMBS OR SCARS.

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SEPT. 20 (CONT) Z-31m PEROMYSCUS CALIFORNICUS
_____ ♀ IN BRUSHY GULLY.
STOMACH - VEG. MATTER. PARASITES.
NO EMB'S.

MANY OF THE P. CALIFORNICUS HAVE PARASITES THAT LOOK LIKE "RED BUGS" OR POSSIBLY SEED TICKS CRAWLING ON THEM. THE OTHER SPECIES TRAPPED DON'T SEEM TO HAVE THIS TYPE OF PARASITE.

Z-32m PEROMYSCUS CALIFORNICUS
_____ ♀ IN BRUSHY GULLY.
STOMACH - BERRIES + OTHER VEG. MATTER.
PARASITES COLLECTED. NO EMB'S.

SEPT 26 SAN BRUNO CITY PARK (CREEK BED ½ MI W. OF PARK), SAN MATEO CO., CALIF.
SET OUT 20 MOUSE TRAPS IN BRUSH HEAPS & THICKETS ALONG THE NEARLY DRY CREEK BED. BAIT - PEANUT BUTTER.

Z-33m PEROMYSCUS CALIFORNICUS
_____ ♂ ON SIDE OF BRUSHY GULLY. STOMACH BERRIES & OTHER VEG. MATTER. PARASITES COLLECTED.

Z-34m. PEROMYSCUS CALIFORNICUS
_____ ♂ IN BRUSH HEAP.
STOMACH - BERRIES & OTHER VEG. MATTER.
PARASITES.

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SEPT 26 (CONT.) THE MOUSE IS TAKEN DIRECTLY FROM THE TRAP INTO A PLASTIC BAG WITH A WAD OF CCL4-SOAKED COTTON TO MAKE SURE ALL OF THE PARASITES ARE KILLED & ABLE TO BE COLLECTED.

SEPT 27. SAN BRUNO CITY PARK (CREEK BED ½ TO 1 MI. WEST OF PARK), SAN MATEO CO., CALIF.

20 MOUSE TRAPS SET IN BRUSH HEAPS ETC. LAST NIGHT. BAIT - PEANUT BUTTER & GREASE. 2 RAT TRAPS SET NEAR WOOD RAT NEST ON WOODED HILLSIDE.

Z-35m PEROMYSCUS CALIFORNICUS
♀ BRUSHY CREEK BANK.
PARASITES. STOMACH - A LITTLE VEG. MATTER. 2 PAIR ENLARGED MAMMAE. WELL DEVELOPED EMBRYOS - 1 RT, 1 LT. (CORN).

Z-36m NEOTOMA FUSCIPES
♂ BY NEST ON BRUSHY HILLSIDE.
PARASITES. STOMACH - VEG. MATTER.

THIS NEST WAS COMPOSED MOSTLY OF STICKS WITH A FEW HARD PIECES OF DIRT ON TOP & IN NEST. HEIGHT 3', DIAMETER 2.5'

Z-37m PEROMYSCUS CALIFORNICUS
♀ IN BRUSH HEAP.
PARASITES. STOMACH - VEG. MATTER &

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SEPT 27 (CONT) REMAINS OF SMALL BEETLE(?) 1 EMB, 1 SCAR LEFT SIDE; 3 SCARS RIGHT SIDE.

Z - 59 EMPIDONAX _____ _____
♂ CAUGHT IN NET SET BESIDE CREEK. ONE OTHER BIRD (SAME SPECIES?) NETTED BUT ESCAPED. STOMACH - INSECT REMAINS.

OCT 3 SAN BRUNO CITY PARK (CREEK BED TO ½ MI. W. OF PARK.), SAN MATEO CO., CALIF.
SET OUT 20 MOUSETRAPS IN BRUSH HEAPS, BLACK BERRY THICKETS, ETC & 2 RAT TRAPS AROUND WOOD RAT NESTS IN POISON OAK THICKETS. ALONG ½ MILE OF THIS CREEK BED I FOUND AT LEAST 10 WOOD RAT NESTS - 4 OF WHICH SEEMED TO BE OCCUPIED. MOST OF THEM WERE IN POISON OAK THICKETS & WERE ABOUT 3' IN DIAMETER & 2'-5' IN HEIGHTH.
ALSO SET OUT BIRD NET ALONG SIDE OF THE PARTLY FILLED CREEK. PHOTOS OF NEOTOMA NESTS, ONE EXCEPTIONALLY TALL ONE SHOWN. KNAPSACK IS 12" HIGH.

Z - 60 JUNCO OREGANUS _____ ♂
STOMACH - SEEDS (COMM.). IRIS - DARK BROWN. WORMS FROM LOWER INTESTINE. FLAT-BODIED FLY ON SPECIMEN BUT IT ESCAPED.

Z - 38m RETHRODONTOMYS MEGALOTIS
_____ ♂ GRASSY FIELD BORDER.
STOMACH - VEG. MATTER.

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OCT 3 (CONT)

SAN BRUNO CITY PARK (CREEK BED TO ½ MI. W OF PARK), SAN MATEO CO., CALIF.

NEOTOMA NEST (WRAPSACK 12" TALL)

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OCT 3 (CONT.) Z-39M PEROMYSCUS CALIFORNICUS
♀ BRUSHY CREEK BANK.
PARASITES COLL. STOMACH - VEG. MATTER.
NO EMBS. BACK SKIN BLACK.

OCT 4. SAN BRUNO CITY PARK (CREEK ½ MI. W. OF PARK), SAN MATEO CO., CALIF.
SET OUT 17 MOUSE TRAPS & 2 RAT TRAPS IN THICKETS, ETC. ALSO BIRD NET AROUND CROWN OF FALLEN TREE. 3 TRAPS IN HOUSE

Z-61 ZONOTRICHIA LEUCOPHRYS
♂ BRUSHY CREEK BANK. STOMACH - A LITTLE VEG. MATTER & SAND. (COLL.)

Z-40M MUS MUSCULUS ♂ CAUGHT IN HOME ON MARGERINE. STOMACH CONTENTS UNIDENTIFIABLE. GREY BENEATH.

TWO OTHER TRAPS IN HOUSE HAD THE MARGERINE & PEANUT BUTTER LICKED OFF OF THEM WITHOUT BEING SPRUNG.

Z-41M PEROMYSCUS CALIFORNICUS
♂ BRUSHY CREEK BED. STOMACH - VEG. MATTER & HAIR BALL. PARASITES

MANY OF P. CALIFORNICUS WERE CAUGHT IN BLACKBERRY THICKETS & THEIR STOMACH CONTENTS WERE COMPOSED OF, OR HEAVILY STAINED WITH, THESE BERRIES.

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OCT 7. SAN BRUNO CITY PARK, SAN MATEO CO., CALIF.

Z-42M THOMOMYS BOTTAE
♀ TRAPPED WITH MACABEE TRAP IN BURROW ON LAWN BY KEN MAFFEI OF MILLBRAE, CALIF. STOMACH - VEG. MATTER. PARASITES. NO EMB'S.

KEN IS 14 YEARS OLD & TOLD ME OF TRAPPING 2 OPOSSUM & 1 GREY FOX ALONG THE CREEK BED USING JAW TRAPS. HE ALSO TOOK 2 YOUNG POSSUMS IN A LIVE BOX TRAP.
THE TWO PARK LAWNS ON WHICH HE TRAPPED THE THOMOMYS HAVE PERHAPS A DOZEN GOPHER RUNS BUT AS QUICK AS THE ANIMALS ARE TRAPPED OUT MORE SEEM TO RETURN ACCORDING TO AN OLD TIMER WHO ALSO TRAPS THEM THERE.

Z-43M THOMOMYS BOTTAE
♂ IN BURROW BY KEN MAFFEI. STOMACH - VEG MATTER. PARASITES.

OCT 9 SAN BRUNO CITY PARK, SAN MATEO CO., CALIF.

Z-44M THOMOMYS BOTTAE
♀ IN BURROW BY KEN MAFFEI. STOMACH - VEG. MATTER. PARASITES. NO EMB'S.

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OCT 9 (CONT.) Z-45M THOMOMYS BOTTAE
♀ IN BURROW BY KEN MAFFEI. STOMACH
– VEG. MATTER. PARASITES. NO EMB'S.

OCT 10 SAN BRUNO CITY PARK, SAN MATEO CO., CALIF.
SET OUT 20 MOUSE & 2 RAT TRAPS ± M, UP THE CREEK BED. BAIT - PEANUT BUTTER

Z-46M PEROMYSCUS CALIFORNICUS
♀ IN BRUSH HEAP.
PARASITES. STOMACH - VEG. MATTER (BLACKBERRIES?). MAMMAE ENLARGED - 2 PAIR. 2 WELL-DEVELOPED EMBRYOS LEFT SIDE, 0 RIGHT SIDE (COLL.)

Z-47M PEROMYSCUS CALIFORNICUS
♂ IN BRUSH HEAP. STOMACH
– VEG. MATTER. PARASITES.

OCT 11 SAN BRUNO CITY PARK (½ MI W. UP CREEK BED & IN FIELDS ABOVE CREEK), SAN MATEO CO., CALIF.
SET OUT 20 MOUSE & 2 RAT TRAPS LAST NIGHT IN FIELDS, THICKETS, BRUSH HEAPS, ETC. BAIT - PEANUT BUTTER & GREASE.

Z-48M + Z-49M RETHRODONTOMYS MEGALOTIS
♀ IN GRASSY CLUMP IN FIELD. STOMACHS - VEG. MATTER. NO EMBS

OCT. 14 SAN BRUNO CITY PARK (CREEK BED ½ MI W. OF PARK), SAN MATEO CO., CALIF.

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OCT 14 (CONT) SET OUT 20 MOUSE TRAPS LAST NIGHT BAITED WITH PEANUT BUTTER & GREASE, IN THICKETS, DRY GULLYS, BRUSH HEAPS, ETC.

Z-50M PEROMYSCUS CALIFORNICUS
_____ ♂ ON BRUSHY BANK.
STOMACH - VEG. MATTER. PARASITES.

OCT 15 SAN BRUNO CITY PARK (CREEK ½ MI W. OF PARK), SAN MATEO CO., CALIF.

Z-62 HYLOCICHLA USTULATA _____
♂ CAUGHT BY LEG IN MOUSE TRAP SET BY KEN MAFFEI IN THICKET ABOVE CREEK. STOMACH - INSECT REMAINS. FEET + LEGS LIGHT BROWN. IRIS BLACK. BILL BLACK WITH BASAL HALF OF LOWER MANDIBLE FLESH-COLORED.

MANY OF THESE THRUSHES SEEN ALONG THE CREEK IN THICKETS FOR THE LAST WEEK OR SO.

OCT 17 SAN BRUNO CITY PARK (½ MI. UP CREEK BED FROM PARK), SAN MATEO CO., CALIF.
SET OUT 20 MOUSE TRAPS + 2 RAT TRAPS BAITED WITH PEANUT BUTTER + HAMBURGER IN THICKETS, DRY GULLYS & BRUSH HEAPS.

Z-51M RETHRODONTOMYS MEGALOTIS
_____ ♂ IN BRUSH PILE.
STOMACH - VEG. MATTER & HAIR BALL.

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OCT 17 (CONT.) Z-52M SOREX TROWBRIDGEI
♂ ON DRY GULLY FLOOR. STOMACH — MOSTLY UNIDENTIFIABLE, SOME INSECTS. PARASITES.

Z-53M PEROMYSCUS CALIFORNICUS
♂ IN BRUSHY GULLY. STOMACH - VEG MATTER. PARASITES.

Z-54M PEROMYSCUS CALIFORNICUS
♂ IN THICKET. STOMACH - VEG. MATTER. PARASITES.

Z-55M PEROMYSCUS CALIFORNICUS
♂ IN THICKET. STOMACH — VEG. MATTER (BLACKBERRIES?) & HAIRBALL.

OCT. 18 SAN BRUNO (½ MI. W. OF CITY PARK), SAN MATEO CO., CALIF.

Z-63 ZONOTRICHIA CORONATA
♂ FOUND SHOT WITH "B-B" AIR GUN ON WOODED HILLSIDE ALONG CREEK. STOMACH - GRAIN (COLL.) PARASITES. IRIS - DARK BROWN. FEET & LEGS LIGHT BROWN. BILL - HORN WITH TOP OF UPPER MANDIBLE BROWN.

OCT. 23 SAN BRUNO (½ MI. W. OF CITY PARK), SAN MATEO CO., CALIF.
SET OUT 20 MOUSE TRAPS & 2 RAT TRAPS IN FIELDS BESIDE CREEK BED & IN BRUSH HEAP, THICKETS, ETC ALONG CREEK. BAIT-

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OCT 23 (CONT) PEANUT BUTTER & HAMBURGER.

Z-56M RETHRODONTOMYS MEGALOTIS
_____ ♂ ON BRUSHY HILLSIDE.
FLEA SEEN ON SPECIMEN IN TRAP-NOT COLLECTED. STOMACH - PIECES OF SMALL BERRIES + HAIR (ITS OWN?).

OCT 24. SANBRUNO CITY PARK CREEK (TO ± MI. W. OF PARK), SAN MATEO CO., CALIF.
SET OUT 20 MOUSE & 2 RAT TRAPS ALONG CREEK BED, IN THICKETS, ETC. & THE RAT TRAPS ON THE SLOPE OF A DRY GULLY WHERE I HAD BEEN HAVING MOUSE TRAPS SPRUNG ALMOST EVERY WEEKEND WITHOUT CATCHING ANYTHING. BAIT - PEANUT BUTTER & HAMBURGER.

Z-57M PEROMYSCUS CALIFORNICUS
_____ ♀ BRUSHY GULLY FLOOR.
STOMACH - VEG MATTER. PARASITES.
2 PR. INGUINAL MAMMAE. 2 YOUNG EMB'S OR SCARS RT. SIDE, 2 YOUNG EMB'S OR SCARS LEFT SIDE.

Z-58M NEOTOMA FUSCIPES _____ ♀
BRUSHY GULLY. STOMACH - VEG. MATTER.
2 PR. INGUINAL MAMMAE. 2 SCARS RIGHT SIDE, 3 SCARS LEFT SIDE.

Z-59M PEROMYSCUS MANICULATUS
_____ ♀ IN BRUSH PILE NEAR PARK.

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OCT 24 (CONT) STOMACH-VEG. MATTER. BACK SKIN BLACK. 3 PR. MAMMAE (1 THORACIC, 2 INGUINAL) NURSING? 5 SCARS RIGHT SIDE, 4 FRESH & 1 OLD(?) LEFT SIDE (UTERUS CONNECTED)

OCT. 25 SAN BRUNO CITY PARK (CREEK TO ½ MI. W. OF PARK), SAN MATEO CO., CALIF.
SET OUT 20 MOUSE TRAPS & 2 RAT TRAPS IN THICKETS IN CREEK BED & ON HILLSIDE ABOVE CREEK. BAIT - PEANUT BUTTER & GREASE.

Z-60 m SOREX TROWBRIDGEI
♀ ON BRUSHY HILLSIDE. STOMACH - MOSTLY UNIDENTIFIABLE, SOME INSECT REMAINS. PARASITES. NO EMB'S.

Z-61 M REITHRODONTOMYS MEGALOTIS
♀ ON BRUSHY CREEK BANK. STOMACH - VEG. MATTER & INSECT REMAINS. PARASITE. 3 PR MAMMAE (2 INGUINAL, 1 THORACIC), 1 SCAR RIGHT SIDE, 2 SCARS LEFT SIDE.

Z-62 M PEROMYSCUS CALIFORNICUS
♀ BRUSHY GULLY. STOMACH - VEG. MATTER. PARASITES. 2 PR. MAMMAE (INGUINAL) - SLIGHTLY ENLARGED. 4 SCARS ~~LEFT~~ SIDE (3 OLD?), 2 SCARS RIGHT SIDE.

OCT. 31 SAN BRUNO (± MI. W. OF CITY PARK), SAN MATEO CO., CALIF.
NO TRAPS SET OUT, BUT BIRD NET HUNG

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OCT 31 (CONT.) AROUND CROWN OF FALLEN TREE IN CREEK BED THIS P.M.

Z-64 CARPODACUS MEXICANUS
♂ STOMACH — SEEDS (COLL.). FEET & LEGS - DARK BROWN. IRIS - DARK BROWN. BILL - DARK HORN. HEAD, NECK & THROAT STRAWBERRY COLORED.

Z-63M SCAPANUS LATIMANUS
♂ FOUND DEAD IN GRASSY CLEARING BESIDE HIGHWAY. APPARENTLY DEAD 2 OR 3 DAYS. PARASITES, STOMACH - INSECTS, GRUBS, WIRE WORMS & OTHER INSECT LARVAE.

NOV. 1 SAN BRUNO CITY PARK, SAN MATEO CO., CALIF.
SET OUT 20 MOUSE TRAPS ALONG CREEK BED IN BRUSH HEAPS & THICKETS ON LEFT SIDE OF WEST END OF PARK. CONSTRUCTION GOING ON 20 YARDS FROM TRAP LOCATION.

Z-64M MICROTUS CALIFORNICUS
♂ IN BRUSH PILE.
STOMACH CONTENTS - VEG. MATTER. PARASITES.

NOV 7 MILLBRAE, SAN MATEO CO., CALIF.
SET OUT 20 MOUSE TRAPS & 1 RAT TRAP AROUND QUARRY 1 MILE WEST OF MILLBRAE. TRAP SETS INCLUDED

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NOV 7 (CONT.) BLACKBERRY THICKETS, DRY CAT-TAIL MARSH + DRIED-UP POND BORDER. BAIT - PEANUT BUTTER + BACON GREASE.

Z-65M MICROTUS CALIFORNICUS
_____ ♂ IN DRY CATTAIL MARSH. STOMACH - VEG. MATTER. PARASITES COLLECTED.

Z-66M PEROMYSCUS TRUEI _____
♂ DRY CATTAIL MARSH. STOMACH - VEG. MATTER

Z-67M PEROMYSCUS TRUEI _____
♀ DRY CATTAIL MARSH. STOMACH - VEG. MATTER, INSECT REMAINS + LITTLE HAIR. PARASITES. 3 PAIR MAMMAE (2 INGUINAL, 1 THORACIC). 2 EMB'S, 1 SCAR RT SIDE; 2 EMB'S LEFT SIDE (COLL.)

NOV 8. SAN BRUNO, SAN MATEO CO., CALIF. SET OUT 20 MOUSE TRAPS LAST NIGHT IN GRASSY SLOUGH NEXT TO OLD BAYSHORE HIWAY. BAIT - PEANUT BUTTER + BACON GREASE. LIGHT RAIN IN THE MORNING. TRAPS SET NEAR SLOUGH IN CREEKS MADE BY DRYING GROUND HAD NOTHING IN THEM.

Z-68M REITHRODONTOMYS MEGALOTIS
_____ ♂ STOMACH - VEG. MATTER

Z-69M MUS MUSCULUS ♂ STOMACH - VEG. MATTER. PARASITES.

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NOV. 8 (CONT.) Z-70M MUS MUSCULUS ♀ STOMACH-VEG. MATTER. PARASITES. TUMOR OR CYST(?) FROM UPPER ABDOMINAL AREA COLLECTED. 4 PAIR MAMMAE (2 INGUINAL, 2 THORACIC). PART OF TAIL MISSING. 1 SCAR LEFT SIDE OF UTERUS.

NOV. 14 SAN BRUNO CITY PARK CREEK (TO ½ MI. W. OF PARK), SAN MATEO CO., CALIF.
SET OUT 20 MOUSE TRAPS IN THICKETS, ETC. ALONG CREEK BED + IN BRUSH HEAPS ON SLOPE ABOVE CREEK. BAIT - PEANUT BUTTER ON HALF THE TRAPS + HAMBURGER ON OTHER HALF. MICE TAKEN ONLY ON PEANUT BUTTER.

Z-71M PEROMYSCUS CALIFORNICUS _____ ♀ BRUSHY GULLY. STOMACH-VEG. MATTER WITH INSECT REMAINS + HAIR (ITS OWN?). PARASITES. 2 PAIR INGUINAL MAMMAE. NO EMB'S OR SCARS.

Z-72M PEROMYSCUS MANICULATUS _____ ♂ ON WOODED (PINE + EUCALYPTUS) HILLSIDE. STOMACH-VEG. MATTER + INSECT REMAINS. SPECIMEN PARTLY EATEN IN TRAP - TAIL TIP MISSING.

NOV. 15 SAN BRUNO, SAN MATEO CO., CALIF.
SET OUT 20 MOUSE + 1 RAT TRAP IN WEED CLUMPS + BESIDE LOGS IN PASTURE ON EAST SIDE OF SAN BRUNO (BETWEEN

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NOV 15 (CONT.) BAYSHORE FREEWAY & CITY). BAIT - PEANUT BUTTER & MARGERINE. RAIN THIS A.M.

Z-73M MUS MUSCULUS ♀ IN WEED CLUMP IN PASTURE. STOMACH CONTENTS - VEG. MATTER. NO EMB'S. WHITE BENEATH.

Z-74M MUS MUSCULUS ♂ IN WEED CLUMP. STOMACH - VEG. MATTER. PARASITES. WHITE BENEATH.

Z-75M MUS MUSCULUS ♂ IN WEED CLUMP. STOMACH - VEG. MATTER. PARASITES WHITE BENEATH.

NOV. 21 MILLBRAE, SAN MATEO CO., CALIF. SET OUT 20 MOUSE TRAPS IN DAMP WOODS UNDER BUSHES, IN BRUSH HEAPS, ETC., & ALSO 1 RAT TRAP BESIDE NEOTOMA NEST IN POISON OAK. BAIT - PEANUT BUTTER, OATS (COOKED) & HAM FAT. IN QUARRY 1 MI. W. OF TOWN.

Z-76M PEROMYSCUS TRUEI _____ ♂ IMM. WOODED HILLSIDE (MOSTLY PINE). STOMACH - VEG MATTER & REMAINS OF SMALL INSECT OR SPIDER. PARASITES.

Z-77M PEROMYSCUS TRUEI _____ ♂ IN DAMP WOODS. STOMACH - VEG. MATTER & INSECT REMAINS.

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NOV. 22 SAN BRUNO CITY PARK CREEK (½ MI. W. OF PARK), SAN MATEO CO., CALIF.

SET OUT 20 MOUSE TRAPS LAST NIGHT IN FIELDS ABOVE CREEK & IN THICKETS IN CLEARING ALONG CREEK. BAIT - PEANUT BUTTER & GREASE.

Z - 78 M RETHIRODONTOMYS MEGALOTIS
♀ DRY HILLSIDE FIELD.
STOMACH - VEG. MATTER. PARASITES. NO EMB'S OR SCARS.

Z - 79 M MICROTUS CALIFORNICUS
♀ BRUSHY CREEK BANK. STOMACH - VEG. MATTER. PARASITES. TUMOR OR CYST FROM LIVER CONNECTED. 2 SMALL EMB'S LEFT SIDE, NONE RIGHT SIDE.

Z - 80 M MICROTUS CALIFORNICUS
♂ BRUSHY CREEK BED. STOMACH - VEG. MATTER. PARASITES.

NOV. 26 SAN BRUNO, SAN MATEO CO., CALIF.

Z - 65 DENDROICA AUDUBONI
♀ FOUND DEAD IN YARD AT 400 KENSINGTON AVE. STOMACH - MOSTLY INSECTS WITH A FEW INSECT LARVAE + SEEDS. BILL, FEET & LEGS & IRIS BLACKISH. PARASITE. OVARY VERY SMALL.

1 OR 2 OF THESE BIRDS WERE SEEN EVERY DAY IN THE YARD & AT OTHER HOUSES

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NOV 26 (CONT) IN THE NEIGHBORHOOD AND THIS MONTH.

NOV. 29. SAN BRUNO CITY PARK CREEK (TO ½ MI. W. OF PARK), SAN MATEO CO., CALIF.
SET OUT 20 MOUSETRAPS ALONG CREEK BED IN THICKETS, ETC. BAIT - PEANUT BUTTER & HAMBURGER. LAST NIGHT.

Z-81m PEROMYSCUS MANICULATUS _____ ♂ IN BRUSHY CREEK BED NEAR PARK. STOMACH - VEG. MATTER & A LITTLE HAIR (ITS OWN?)

Z-82m PEROMYSCUS MANICULATUS _____ ♀ ON BRUSHY CREEK BANK. STOMACH - VEG. MATTER & INSECTS. PARASITES. 3 PAIR MAMMAE (2 INGUINAL, 1 THORACIC) - ENLARGED. 1 SCAR RIGHT SIDE, 4 SCARS LEFT SIDE OF UTERUS.

DEC. 5 MILLBRAE, SAN MATEO CO., CALIF.
SET OUT 20 MOUSE TRAPS LAST NIGHT NEAR QUARRY 1 MI. WEST OF CITY. TRAPS SET IN WILLOW THICKET IN WET MEADOW IN FIELD & (3) ON OPEN ROCKY SLOPE. ALSO 2 RAT TRAPS SET AROUND NEOTOMA NEST SHOWING FRESH PINE TWIGS IN POISON OAK CLUMP. BAIT - PEANUT BUTTER.

Z-83m PEROMYSCUS MANICULATUS _____ ♂ BARE ROCKY SLOPE. STOMACH - MOSTLY VEG. MATTER WITH POSSIBLY A FEW INSECT REMAINS. PARASITE.

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DEC 5 (CONT.) Z-84M PEROMYSCUS TRUEI ? _____
♀ IMM. WILLOW THICKET IN WET MEADOW.
STOMACH - VEG MATTER & INSECTS.
PARASITE. NO EMB'S.

Z-85M PEROMYSCUS TRUEI ? _____
♂ IMM. WILLOW THICKET IN WET MEADOW.
STOMACH - INSECT REMAINS & SOME VEG. MATTER.
PARASITE ATTACHED TO OUTER SIDE OF EAR (COLL.)

DEC 6 SAN BRUNO CITY PARK CREEK (TO ½ MI W. OF PARK), SAN MATEO CO., CALIF.
SET OUT 20 MOUSE TRAPS IN THICKETS, ETC. ALONG CREEK BED & ALSO IN DRY FIELD & WOODED GULLY ABOVE CREEK. BAIT - PEANUT BUTTER & GREASE. RAIN LAST NIGHT & THIS MORNING.

Z-86M MUS MUSCULUS ♀ BRUSHY THICKET BESIDE CREEK BED. STOMACH - VEG. MATTER. PARASITES (?). NO EMB'S.

Z-87M REITHRODONTOMYS MEGALOTIS _____ ♂ BRUSHY FIELD BORDER. STOMACH - VEG MATTER. SPECIMEN PARTLY EATEN IN TRAP.

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DEC. 12 2 MILES N.E. OF SAN BRUNO, SAN MATEO CO, CALIF.
SET OUT 20 MOUSE TRAPS ALONG DIKES & IN FIELD NEAR EDGE OF BAY SHORE. PART OF AREA APPARENTLY HAD BEEN FLOODED BUT WAS FIRM ENOUGH TO WALK ON. 8 OR 10 DEAD GULLS (TO FAR GONE TO IDENTIFY) ALONG EDGES OF PITS. OPEN BAY SHORE ABOUT 200 YARDS AWAY FROM TRAP SETS. BAIT - PEANUT BUTTER & BACON GREASE. NIGHT COLD (35°-40°) & CLEAR. TRAPS SET IN GRASS CLUMPS - MANY IN MICROTUS RUNWAYS, SOME RUNWAYS FRESH.
- 88 REITHRODONTOMYS CAUGHT ON DIKE, SKULL BROKEN. STOM. VEGETABLE MATTER, SOME GREEN (SALICORNIA?)
- 89 IN MICROTUS FIELD, PARASITES (FLEAS) + CYST FROM LIVER LOBE (COLA). STOM - GREEN VEGETABLE MATTER. (MOSTLY SALICORNIA)
SHORT-EARED OWL SEEN HUNTING OVER MARSH. HUNTERS OUT FOR DUCKS.
BAIT ON MOST OF TRAPS NOT TOUCHED.
FRESH SECTIONS OF SALICORNIA SP. IN MICROTUS RUNWAYS.

DEC. 13 (EAST) SAN BRUNO, SAN MATEO CO, CALIF.
6 CARPODACUS MEXICANUS FOUND DEAD ALONG HIWAY, APPARENTLY HIT BY TRUCK WHEN FLYING IN FLOCKS ACROSS ROAD. 5 COLLECTED.
- 90, 91, 92, 93, 94. PARASITE FROM 90 (LOUSE)
STOMACH CONTENTS - SEEDS + SAND (COLLECTED)
VERY LITTLE FAT.

DEC. 14 SAN BRUNO, SAN MATEO CO, CALIF.
JUNCO OREGANUS SEEN FROM WINDOW - ~~ANOTHER~~ SPECIES AT HOUSE TO DATE - (SEEN OR HEARD)
CARPODACUS MEXICANUS

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DEC 14 (CONT) PASSER DOMESTICUS
MELOSPIZA MELODIA
ZONOTRICHIA LEUCOPHRYS
CALYPTE ANNA
EMPIDONAX SPP.
DENDROICA AUDUBONI
EUPHAGUS CYANOCEPHALUS
PIPILO FUSCUS
OXYECHUS VOCIFERUS
HYLOCICHLA GUTTATA
TURDUS MIGRATORIUS
PSALTRIPARUS MINIMUS
LARUS SPP.
JUNCO OREGANUS

UNUSUAL - THAT THE TWO MALE CARPODACUS TAKEN DEC. 13 HAD RUST COLORED HEADS & RUMPS WHILE OTHER MALES SEEN TODAY IN THE SAME LOCALITY HAD DEEP ROSE COLORED HEADS & RUMPS. WHY THE DIFFERENCE?

DEC 19 SE. EDGE S.F. INT'L AIRPORT, SAN MATEO CO, CALIF.

SET OUT 20 MOUSE TRAPS ALONG EDGE OF BAY LAST NIGHT. 8 TRAPS IN SALICORNIA AT EXTRA HIGH TIDE LINE. OTHERS ON SMALL BLUFF ABOUT 2 FEET ABOVE THIS HIGH TIDE LINE. TWO MICROTUS & REITHRODONTOMYS PLUS ONE MUS TAKEN ON BLUFF; 1 MUS AT HIGH TIDE LINE IN SALICORNIA.
ONE OF THESE MUS PURE WHITE BENEATH — EXCEPT FOR SCALY TAIL & SLIGHTLY POINTED HEAD COULD HAVE PASSED EASILY FOR DEER MOUSE. THE OTHER MUS GRAYISH-WHITE BENEATH (NEITHER MUS COLLECTED.)

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DEC 19 (CONT.) SOME MICROTUS RUNWAYS ALONG EXTRA HIGH TIDE LINE NEAR BLUFFS. MANY IN BLUFFS.

- 95 RETHRODONTOMYS 2 PAIR INGUINAL MAMMAE, 1 PAIR THORACIC (ENLARGED) - STOM. CONTS VEGETABLE MATTER (PARTLY SALICORNIA ?)
- 96 MICROTUS. FLEA CONNECTED. STOM. CONTS - GREEN VEGETABLE MATTER (SALICORNIA ?)
- 97 MICROTUS FLEA + TICK(?) CONNECTED. NO EMB'S, BUT 2 PAIR INGUINAL + 1 PAIR THORACIC MAMMAE SLIGHTLY ENLARGED. STOM. CONTS GREEN VEGETABLE MATTER (SALICORNIA ?)

· SEVERAL DUCKS SEEN DEAD AT WATERS EDGE. THESE PARTLY EATEN AS WAS ALSO A COOT + WHITE PELICAN. ALSO ONE CRIPPLED DUCK PADDLING AWAY FROM SHORE. SEVERAL DUCK HUNTERS IN BLINDS AWAY FROM SHORE. THESE DEAD DUCKS APPARENTLY ONES THAT GOT AWAY - FOR A WHILE AT LEAST.

LOST TWO TRAPS - ONE THRU LACK OF A MARKER + THE OTHER JUST GONE. ALL TRAPS SET 10'-20' FROM WATERS EDGE. BAIT - PEANUT BUTTER + BACON GREASE. TEMP. 35°-40° F.

DEC 20 SET OUT 18 MOUSE TRAPS LAST NIGHT JUST ABOVE HIGH TIDE LINE ON BAYSHORE BETWEEN PAN AM. + UNITED AIRWAYS. CAUGHT TWO MUS - ONE COLLECTED TO SHOW WHITENESS OF UNDERPARTS.

- 98 PARASITE COLLECTED. STOMACH CONTENTS - VEGETABLE MATTER. SKULL BROKEN!

MOST OF TRAPS NOT SPRUNG ALTHO A COUPLE IN MICROTUS RUNWAYS SPRUNG BUT BAIT STILL INTACT. TEMP. 35° F. BAIT PEANUT BUTTER +

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DEC 20 (CONT) BACON GREASE.

ABOUT 20 NIGHT HERONS SEEN LAST NIGHT. THIS MORNING PHALACROCORAX SP, AECHMOPHORUS OCCIDENTALIS (5), PELECANUS OCCIDENTALIS (2), CATOPTROPHORUS SEMIPALMATUS (150-200!), RECURVIROSTRA AMERICANA (1), FULICA AMERICANA (20), CASMERODIUS ALBUS (6), OTOCORIS ALPESTRIS (10)?, NYCTICORAX NYCTICORAX (2) & 100 SMALL & MEDIUM-SIZED SHOREBIRDS & PEEPS.

DEC 25 & 26 MYERS' HOME 48 MANZANITA RD., ATHERTON, SAN MATEO CO., CALIF.

SCIURUS NIGER SEEN ABOUT 1:00 P.M. ALSO ALL BLACK SQUIRREL (S. GRISEUS OR S. NIGER?) MR. WILLIAM MYERS TOLD OF SEEING THE BLACK OFTEN BEFORE (POSSIBLY 3 OR 4 OF THEM)

BIRDS THERE LOPHORTYX CALIFORNICA (4) DENDROICA AUDUBONI, APHELOCOMA CALIFORNICA (5), BAEOLOPHUS INORNATUS (3), BALANOSPHYRA FORMICIVORA (3+1) ONE OF 3 ALONG ~~WILLOW~~ MIDDLEFIELD RD STORING ACORNS. PIPILO FUSCUS (6), ZONOTRICHIA LEUCOPHRYS (10), ZENAIDURA MACROURA (4), COLAPTES CAFER (2) TOXOSTOMA REDIVIVUM (1), CARPODACUS MEXICANUS ♀

BIRDS SEEN ALONG BAYSHORE BETWEEN MENLO PARK & SAN BRUNO INCLUDED FALCO SPARVERIUS (4), ARDEA HERODIAS (2), CASMERODIUS ALBUS (5), AECHMOPHORUS OCCIDENTALIS (3), LARUS SP AYTHYA SP.

END 1954

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1 MI. NE. SAN BRUNO (SALT MARSH), SAN MATEO CO., CALIF.
JAN 2, 1955

LOWERY UNIV. 99 ♀ (9 SCARS) MUS 144-71-17-12

1 MI. SE. S.F. INTL. AIRPORT (OLD BAYSHORE HIWAY), SAN MATEO CO., CALIF.
JAN 23, 1955

LOWERY UNIV. 100 ♂ (TESTES 2X3 MM) RETHRODONTOMYS 130-76-18-13
LOWERY UNIV. 101 ♂ (TESTES 4X5 MM) MICROTUS + PARASITES 136-140-20-14
LOWERY UNIV. 102 ♂ (TESTES 4X6 MM) MICROTUS + PARASITES 143-42-21-13

MANZANITA RD., MENLO PARK, SAN MATEO CO., CALIF.
FEB 13, 1955

LOWERY UNIV. 103 ♀ (OVARY NOT ENL.) IXOREUS NAEVIUS

FUSHIMIKU, KYOTO CITY, HONSHU, JAPAN
APR 3, 1955

CALIF. MVZ 104 FROG
CALIF. MVZ 105 SNAKE 1033 MM.

HIGASHIKUJO (KAMO RIVER), SHIMOGIYOKU, KYOTO CITY, HONSHU, JAPAN.
APR 6, 1955

CALIF. MVZ 106 ♂ (TESTES 00) BUNTING EMBERIZA [illegible]

FUSHIMIKU (TOYO-YEN), KYOTO CITY, HONSHU, JAPAN.
APR 6, 1955

CALIF. MVZ 107 FROG
CALIF. MVZ 108 ♀ (OVARY SL. ENL.) BIRD [illegible]
TO: DR. R. STONLOR UNIV. COL. 109 SNAIL ALIVE
" 110 SNAIL ALIVE
" 111 SNAIL ALIVE

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FUSHIMIKU (2 MI. RADIUS OF TOYO-YEN), KYOTO CITY, HONSHU, JAPAN.

APR 8, 1955

CALIF. MVZ	112		LIZARD	
CALIF. MVZ	113	♂ (TESTES 00)	BUNTING	

KAMO RIVER, N. FUSHIMIKU, KYOTO CITY, HONSHU, JAPAN.

APR 10, 1955

CALIF. MVZ	114		FROG	
CALIF. MVZ	115		FROG	
CALIF. MVZ	116		FROG	

E. FUSHIMIKU (TOYO-YEN), KYOTO CITY, HONSHU, JAPAN.

APR 13, 1955

CALIF. MVZ	117	♀ (NO EMB'S)	MOUSE	160-78-23-16 (N)

APR 15, 1955

TO-UNIV. CALIF. MVZ	118	♀ (NO EMB'S)	MOUSE	162-76-23-16 (N)
CALIF. MVZ	119	♂ (TESTES 9X16 MM)	MOUSE	228-112-26-16 (N) + PARASITES
LOWERY UNIV.	120	♂ (TESTES 8X13 MM)	MOUSE	213-116-25-16 (N) + PARASITES
CALIF. MVZ	121	♂ (TESTES 8X15 MM)	MOUSE	211-101-26-17 (N) + PARASITES
R. STOHLER UNIV. CALIF.	122	SNAIL	DEAD	
"	123	SNAIL	ALIVE	
"	124	SNAIL	ALIVE	
"	125	SNAIL	ALIVE	

ISHIOAKITACHIYO, HIGASHIKUJO, SHIMOGIYOKU, KYOTO CITY, HONSHU, JAPAN.

APR 16, 1955

"	126	SNAIL	ALIVE
"	127	SNAIL	ALIVE
"	128	SNAIL	ALIVE
"	129	SNAIL	ALIVE
"	130	SNAIL	ALIVE
"	131	SNAIL	ALIVE

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KAMO RIVER, HIGASHIKUJO, SHIMOGIYOKU, KYOTO CITY, HONSHU, JAPAN.
APR 18, 1955

R. STOHLER UNIV. CALIF. 132 SNAIL ALIVE

ISHIOAKITACHIYO, HIGASHIKUJO, SHIMOGIYOKU, KYOTO CITY, HONSHU, JAPAN.
APR 18, 1955

" (?) 133 LEECH

JONANGU SHRINE, KOKUDO ROAD, FUSHIMIKU, KYOTO CITY, HONSHU, JAPAN.
APR 19, 1955

" 134 SNAIL DEAD
" 135 SNAIL ALIVE
" 136 SNAIL ALIVE
" 137 SNAIL ALIVE
" 138 SNAIL ALIVE

E. HIGASHIYAMAKU, KYOTO CITY, HONSHU, JAPAN.
APR 20, 1955

DISCARDED 139 BONES & BEETLE FROM OWL PELLETS.
DISCARDED 140 TOOTH
U. CALIF. MVZ 141 LIZARD PARASITE

MATSUBARADORI, HIGASHIYAMAKU, KYOTO CITY, HONSHU, JAPAN.
APR 20, 1955

R. STOHLER UNIV. CALIF. 142 SNAIL ALIVE

E. FUSHIMIKU (TOYO-YEN), KYOTO CITY, HONSHU, JAPAN.
APR 22, 1955

TO- UNIV. CALIF. MVZ 143 ♂ (TESTES 8×13MM) MOUSE 200-98-26-16(N) + PARASITES
TO- UNIV. CALIF. MVZ 144 ♀ (NO EMB'S) MOUSE (+ SKELETON) 186-92-25½-16(N) + PARASITES
CALIF. MVZ 145 ♂ (TESTES 2½×5MM) MOUSE 134-65-22-15(N) + PARASITES
CALIF. MVZ 146 ♂ (TESTES 2×4MM) MOUSE 130-63-22-14(N) + PARASITES
U. CALIF. MVZ 147 ♂ (TESTES 6×11MM) MOUSE 202-97-26-17(N) + PARASITES

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APR 22, 1955 (CONT.)

TO UNIV. CALIF. MVZ 148 ♀ (5 SCARS) MOUSE 210-100-24-16 (N) + PARASITES
TO UNIV. CALIF. MVZ 149 ♂ (TESTES 2X5MM) MOUSE 200-100-25-17 (N) + PARASITES
CALIF. MVZ 150 ♀ (4 SCARS) MOUSE 211-96-25-17 (N) + PARASITES

SHI-JO MARKET, NAKANYOKU, KYOTO CITY, HONSHU, JAPAN
APR 25, 1955

151 EGG
152 EGG
153 EGG
154 EGG
155 EGG

YOOO-SHI, KYOTO FU, HONSHU, JAPAN.
APR 27, 1955

TO UNIV. CALIF. MVZ 156 FROG
CALIF. MVZ 157 FROG
CALIF. MVZ 158 LIZARD
DR. R. STOHLER UNIV. CALIF. 159 SNAIL (+ OPERCULUM) DEAD
" 160 SNAIL (+ OPERCULUM) DEAD
" 161 SEVERAL SMALL SNAILS FROM INSIDE #159 + #160. DEAD.

1 MI. W. YODO, KYOTO-FU, HONSHU, JAPAN.
APR 29, 1955

CALIF. MVZ 162 ♀ (NO EMB'S) MOUSE 122-37-19-12 (N) + PARASITES
CALIF. MVZ 163 ♂ (TESTES 9X15MM) MOUSE 167-58 (TIP MISSING)-27-17 (N)
CALIF. MVZ 164 ♂ (TESTES 9X16MM) MOUSE 206-102-25-16 (N) + PARASITES
CALIF. MVZ 165 ♂ (TESTES 00) BUNTING
TO UNIV. CALIF. MVZ 166 FROG
TO UNIV. CALIF. MVZ 167 FROG
CALIF. MVZ 168 FROG
CALIF. MVZ 169 FROG
DR. R. STOHLER UNIV. CALIF. 170 SNAIL ALIVE

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APR 29, 1955 (CONT.)

TO DR. R. STOHLER UNIV. CALIF.	171	SNAIL	ALIVE
"	172	SNAIL	ALIVE
"	173	SNAIL	ALIVE
"	174	SNAIL	ALIVE
"	175	SNAIL	ALIVE
"	176	SNAIL	ALIVE (+ OPERCULUM) ALSO BODY SAVED.
"	177	SNAIL	(+ OPERCULUM) ALIVE

FUJINOMORI, FUSHIMIKU, KYOTO CITY, HONSHU, JAPAN.
APR 30, 1955

CALIF. MVZ	178	GECKO	(+ TIP OF TAIL)

YAWATA (SHRINE), KYOTO FU, HONSHU, JAPAN.
MAY 1, 1955

TO. DR. R. STOHLER UNIV. CALIF.	179	SNAIL	ALIVE
"	180	SNAIL	DEAD

¼ MI. S. YAMASHINA, HIGASHIYAMA-KU, KYOTO CITY, HONSHU, JAPAN.
MAY 1, 1955

CALIF. MVZ	181	LIZARD	
CALIF. MVZ	182	LIZARD	
U. CALIF. MVZ	183	LIZARD	
U. CALIF. MVZ	184	NEWT	
U. CALIF. MVZ	185	NEWT	
U. CALIF. MVZ	186	NEWT	
U. CALIF MVZ	187	NEWT	
U. CALIF. MVZ	188	NEWT	
UNIV. CALIF. MVZ	189	NEWT	
TO UNIV. CALIF. MVZ	190	FROG (TOAD?)	
U. CALIF. MVZ	191	FROG (TOAD?)	
U. CALIF. MVZ. (?)	192	FISH ?	

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FUJINOMORI, FUSHIMIKU, KYOTO CITY, HONSHU, JAPAN.
MAY 1, 1955

CALIF. MVZ 193 GECKO PARASITES

KAMO RIVER, N. FUSHIMIKU, KYOTO CITY, HONSHU, JAPAN.
MAY 3, 1955

CALIF. MVZ 194 ♀ (3 EMB'S 8X10 MM / 1 EMB 3X3 MM) MOUSE EMB'S COLLECTED. 198-101-25-17(N) + PARASITES
STOHLER UNIV. CALIF. 195 SNAIL ALIVE
" 196 SNAIL ALIVE

FUJINOMORI, FUSHIMIKU, KYOTO CITY, HONSHU, JAPAN
MAY 6, 1955

CALIF. MVZ 197 GECKO PARASITES

YAWATA SHRINE, KYOTO-FU, HONSHU, JAPAN.
MAY 8, 1955

CALIF. MVZ 198 ♀ (5 SCARS) MOUSE 212-109-25-16(N) + PARASITES
CALIF. MVZ 199 ♂ (TESTES 3X5MM) MOUSE 187-92-25-17(N) + PARASITES

1 MI. W. YODO, KYOTO-FU, HONSHU, JAPAN.
MAY 10, 1955

CALIF. MVZ 200 ♀ (6 SCARS) MOUSE 198-98-25-16(N)
CALIF. MVZ 201 ♀ (4 SCARS) MOUSE 197-88-24-15½(N)
STOHLER UNIV. CALIF. 202 SNAIL ALIVE
" 203 SNAIL ALIVE
" 204 SNAIL ALIVE

TOYO-YEN, E. FUSHIMIKU, KYOTO CITY, HONSHU, JAPAN.
MAY 13, 1955

TO - GEO. LOWERY, LA. ST. UNIV. 205 ♀ (6 SCARS + 3 OLD (?)) MOUSE 207-110-25-16(N) + PARASITES
CALIF. 206 ♂ (TESTES 2½ X 5MM) MOUSE 177-95-23-15(N) + PARASITES
JOHN STOHLER UNIV CALIF. (?) 207 LEECH
" 208 SNAIL ALIVE

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TO: DR R. STOHLER
UNIV. CALIF.

MAY 13, 1955 (CONT.)

(?) 209 ARACHNID(?)

ISHIDAKITACHIYO, HIGASHIKUJO, SHIMOGIYOKU, KYOTOCITY, HONSHU, JAPAN
MAY 13, 1955

CALIF. MVZ 210 ♀ (NO EMB'S) RAT 224-111-33-17(W) + PARASITES

YAWATA SHRINE, KYOTO-FU, HONSHU, JAPAN
MAY 15, 1955

CALIF. MVZ 211 ♂ (TESTES 00) MOUSE 183-89-24-15(W) + PARASITES

MATSUO, UKYO-KU, KYOTO CITY, HONSHU, JAPAN
MAY 17, 1955

TO: DR R. STOHLER UNIV. CALIF.
212 SNAIL ALIVE
" (?) 213 CENTIPEDE

ISHIDAKITACHIYO, HIGASHIKUJO, SHIMOGIYOKU, KYOTOCITY, HONSHU, JAPAN.
MAY 18, 1955

" (?) 214 LEECH

UNIV. CALIF. CAMPUS, BERKELEY, ALAMEDA CO., CALIF.
SEPT. 24, 1955

C. ROSS A.S.C. 215 ♂ (TESTES 00) EMPIDONAX IRIS - DARK BROWN

2200 BLOCK HASTE ST., BERKELEY, ALAMEDA CO., CALIF
OCT. 13, 1955

" 216 ♂ (TESTES 00) 1MM? WH. CR'S SPARROW? IRIS DARK BROWN

NEAR NYES HOTEL, MOSSBEACH, SAN MATEO CO. CALIF.
DEC 29, 1955

" 217 ♂ (TESTES 6 X 3½ MM) 153-73-20-16(W)
" 218 ♂ (TESTES 5 X 3 MM) 142-4#-20-14(W)

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NEAR NYES HOTEL, MOSS BEACH, SAN MATEO CO. CALIF.
DEC 29. 1955 (CONT.)

TO. 2. C. ROSS S.C. 219 ♀ (NO EMB'S) 155-48-20-13½ (N)

END 1955
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JAN 2. SALT MARSH 1 MI. NE. SAN BRUNO, SAN MATEO CO, CALIF. BAY MARGIN ACROSS FROM PAN-AMERICAN AIRWAYS PARKING LOT.

SET OUT 18 MOUSE TRAPS BAITED WITH PEANUT BUTTER & MARGARINE LAST NIGHT. HIGH WINDS 'TIL MIDNIGHT, THEN A LIGHT RAIN & FINALLY CLEAR & COOL THIS MORNING. TEMP. 40°F +. BIRDS LAST NIGHT NYROCORAX NYCTICORAX (8), CASMERODIUS ALBUS (2), FULICA AMERICANA (10), OXYECHUS VOCIFERUS (3), NUMENIUS AMERICANUS (?) (50), LARUS SP. (100), CATOPTROPHORUS SEMIPALMATUS (10), ASSORTED SMALL & MEDIUM SIZED SHOREBIRDS 100, RECURVIROSTRA AMERICANA (10), STURNELLA NEGLECTA (5), CARPODACUS MEXICANUS (50), ACHMOPHORUS OCCIDENTALIS (2),

DEAD ALONG WATERLINE & IN FLATS — ACHMOPHORUS OCCIDENTALIS (1), ~~SAME~~ MEDIUM SIZED SHOREBIRD (1), LARUS SP (4), FULICA AMERICANA ? (1),

— 99 ♀ (9 SCARS) 5.1" PAIR MUS OF MAMMAE (3 TH., 2 IN.) STOMACH CONTENTS VEGETABLE MATTER. SOME KIND OF ERUPTION ON TOP OF BRAIN CASE PUS (?) UNDER COVERING OF SKULL, BUT NOT AFFECTING SKIN.

ONE OTHER MUS TRAPPED BUT FOUND ALMOST COMPLETELY EATEN IN TRAP. ONLY SKULL, PART OF PELT & TAIL LEFT. FRESH DROPPINGS FOUND ON TRAP. (MUS?).

SHED SNAKE SKIN ON SMALL MOUND IN FLATS. ALSO MANY PELLETS (OR SCAT?) COMPOSED OF CRAYFISH OR CRAB SHELLS & MUSSEL (?) OR OTHER PURPLISH SHELL FRAGMENTS.

HUNTER SHOOTING OVER MUDFLATS (50 YARDS TO

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JAN 2 (CONT) OPEN WATER) PROBABLY AT GULLS OR SHORE-BIRDS.

MOST OF TRAPS IN FLATS NOT TOUCHED, BUT BAIT IN HALF OF TRAPS IN SALICORNIA ALONG DIKES GONE OR TRAPS SPRUNG.

BIRDS THIS MORNING AECHMOPHORUS OCCIDENTALIS (1), PELECANUS OCCIDENTALIS (1), CASMERODIUS ALBUS (4), FULICA AMERICANA (5), NUMENIUS AMERICANUS ? (10), CATOPTROPHORUS SEMIPALMATUS (50), LARUS SP (100), TOTANUS MELANOLEUCUS ? (1 - BROKEN WING), STURNELLA NEGLECTA (3), ANTHUS SPINOLETTA (1), OTOCORIS ALPESTRIS ?? (12).

PHOTOS - SALICORNIA ALONG EDGE OF BAY INLET

- MUS EATEN IN TRAP.
- MUS WHITE BENEATH.
- FLATS (2-3 FT ABOVE HIGH TIDE) SHOWING PATCHES OF SALICORNIA. (NO MICROTUS RUNWAYS HERE).

JAN 22 SALT MARSH, 1 MI NE. SAN BRUNO, SAN MATEO CO, CALIF.

SET OUT 18 MOUSE TRAPS ABOUT 4:30 LAST NIGHT MOSTLY IN SALICORNIA PATCHES. PEANUT BUTTER + HAMBURGER BAIT.

BIRDS LAST NIGHT LARUS SP (50), NYCTICORAX NYCTICORAX (30). CLEAR, TEMP. 45° F.

4 OR 5 TRAPS SPRUNG OR BAIT GONE, BUT NO SPECIMENS. BIRDS THIS MORNING INCLUDED NYCTICORAX NYCTICORAX (4), LARUS SP. (200), CASMERODIUS ALBUS (5), STURNELLA NEGLECTA (5), OXYECHUS VOCIFERUS (1) RECURVIROSTRA AMERICANA (20), NYROCA AFFINIS (?) (10)

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JAN 2
(CONT.)

SALT MARSH, 1 MI. NE SAN BRUNO
SAN MATEO CO., CALIF.

SALICORNIA ALONG EDGE OF BAY INLET

MUS EATEN IN TRAP

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JAN 2
(CONT.)

SALT MARSH, 1 MI. NE SAN BRUNO
SAN MATEO CO., CALIF.

MUS - WHITE BENEATH

FLATS (2-3 FT. ABOVE HIGH TIDE) SHOWING PATCHES OF SALICORNIA (NO MICROTUS RUNWAYS HERE)

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JAN 23 1 MI SE. SAN FRANCISCO INT'L. AIRPORT (OLD BAYSHORE HIWAY), SAN MATEO CO., CALIF.

SET OUT 17 MOUSE TRAPS LAST NIGHT – 12 ON BAY MARGIN BESIDE OLD HIGHWAY + 5 ON ROADSIDE BANK AWAY FROM BAY. NO TRAPS ON FIELD SIDE OF HIGHWAY SPRUNG, BUT IN THOSE 6 FEET FROM WATERS EDGE IN SALICORNIA – 2 MUS (WHITISH BENEATH) NOT COLLECTED + 1 REITHRODONTOMYS (NOT COLLECTED – SKULL CRUSHED) WITH R. MEGALOTIS COLOR PATTERN – DARK BROWN DORSAL STRIPE, BROWN SIDES WITH RUFOUS LINE SEPARATING WHITE UNDERPARTS. +

TRAPS SET IN SALICORNIA – SOME IN MICROTUS RUNWAYS. BAIT – PEANUT BUTTER + HAMBURGER. TEMP 45° F. CLEAR, LITTLE WIND.

– 100 REITHRODONTOMYS SKULL CRUSHED
STOMACH CONTENTS – VEGETABLE MATTER

– 101 MICROTUS PARASITES COLLECTED. STOMACH CONTENTS GREEN VEGETABLE MATTER – SALICORNIA(?) BY THE SMELL.

– 102 MICROTUS PARASITES COLLECTED. STOMACH CONTENTS SALICORNIA (?). SEVERAL SMALL SCABS NOTICED ON SIDES + BACK.

BIRDS THIS MORNING AECHMOPHORUS OCCIDENTALIS (3) (+ 1 DEAD ON SHORE), NYROCA AFFINIS (?) (40), OXYECHUS VOCIFERUS (1), STURNELLA NEGLECTA (5).

FEB 6 SALT MARSH 1 MI N.E. SAN BRUNO, SAN MATEO CO., CALIF.

SET OUT 17 MOUSE TRAPS LAST NIGHT IN FLATS + SALICORNIA ALONG BAYSHORE. 2 MUS TRAPPED (WHITISH BENEATH) NOT COLLECTED. ONLY TWO OTHER TRAPS SPRUNG. BAIT – PEANUT BUTTER + HAMBURGER. 45° – 55° F. CLEAR, SLIGHT N.W. WIND.

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FEB 6 (CONT) BIRDS LAST NIGHT - LARUS SP., DEAD FULICA AMERICANA, NYROCA AFFINIS ?(10), NYCTICORAX NYCTICORAX (5), ~~HEROD~~ ARDEA HERODIAS(1), FALCO SPARVERIUS (1).

BIRDS THIS MORNING - AECHMOPHORUS OCCIDENTALIS (5), ARDEA HERODIAS (1), CASMERODIUS ALBUS (5), NYROCA AFFINIS? (10), FULICA AMERICANA (10), OXYECHUS VOCIFERUS (5), NUMENIUS AMERICANUS (20), RECURVIROSTRA AMERICANA? (10), STURNELLA NEGLECTA (10),

FEB 11 ~~NEW BIRD AT~~ FEEDING STATION - 400 KENSINGTON AVE, SAN BRUNO. HYLOCICHLA GUTTATA (COMPARATIVELY LIGHT BREAST SPOTS) ~~USTULATA~~. FLOCK OF BOMBYCILLA CEDRORUM (ABOUT 15) OVER UNITED AIRLINES MAINT. BASE.

FEB 13 JUNCO OREGANUS AT SAME FEEDING STATION. SAN BRUNO.

MANZANITA RD., MENLO PARK, SAN MATEO CO., CALIF.

WEATHER CLEAR & WARM.

- 103 IXOREUS NAEVIUS ♀ DEAD ABOUT 5 DAYS. APP. FLEW INTO WINDOW & KILLED ITSELF. MAULED BY DOG. ALSO. FEET & LEGS FLESH-COLORED, BILL & IRIS DARK BROWN. STOMACH CONTENTS - SAND & UNIDENT. DARK STUFF.

ALSO SEEN OR HEARD - ZENAIDURA MACROURA (1), COLAPTES CAFER (1), APHELOCOMA CALIFORNICA (5), TOXOSTOMA REDIVIVUM (1), IXOREUS NAEVIUS (2), BOMBYCILLA CEDRORUM (5), DENDROICA AUDUBONI (2), PIPILO FUSCUS (5), PIPILO MACULATUS (1), JUNCO OREGANUS & ZONOTRICHIA LEUCOPHRYS (2), TURDUS MIGRATORIUS (5) (2)

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FEB 24 + 27 400 KENSINGTON AVE, SAN BRUNO. PASSERELLA ILIACA ONE AT FEEDING STA.

MAR 1 M.S. ASAMA MARU, 300 MI FROM SAN FRANCISCO ON SOUTHERN ROUTE TO YOKOHAMA. WEATHER - CLEAR, COOL WIND - MODERATE N.W.

7:00 A.M. - LARUS ARGENTATUS (10), DIOMEDEA NIGRIPES (3).

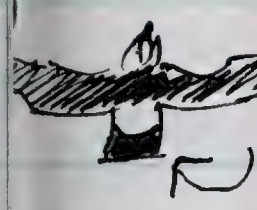
5:00 P.M. - DIOMEDEA NIGRIPES (16), LARUS ARGENTATUS (25).

GLASS NET FLOAT SEEN THIS MORNING.

MILAGES ARE FROM NOON POSITION REPORT.

MAR 2 M.S. ASAMA MARU, 700 MI. FROM SAN FRANCISCO. WEATHER - PARTLY CLOUDY, COOL OCC. LIGHT RAIN. WIND - MODERATE W.

8:00 A.M. DIOMEDEA NIGRIPES (9), DIOMEDEA IMMUTABILIS (1) - TAIL BOR ENDING WITH BLACK NOTCH. UNDERWINGS WHITISH WITH DARK BORDER ALL AROUND., LARUS ARGENTATUS (?) (1), BROKEN LEG.



5:00 P.M. DIOMEDEA NIGRIPES (13) - TWO OF THESE SHOWED WHITE RUMP & WHITE UNDER-TAIL COVERTS & LOWER STOMACH. ADULTS? LARUS ARGENTATUS (2) - STILL THE ONE WITH THE BROKEN LEG.

MAR 3 M.S. ASAMA MARU, 1,000 MI. FROM SAN FRANCISCO WEATHER - MOSTLY CLEAR, STRONG S. WIND.

8:00 A.M. DIOMEDEA NIGRIPES (14) INCLUDING 2 ADULTS.

10:30 A.M. DIOMEDEA NIGRIPES (12), DIOMEDEA IMMUTABILIS (1), LARUS ARGENTATUS (?) (1).

2:00 P.M. DIOMEDEA NIGRIPES (14), DIOMEDEA IMMUTABILIS (1) STILL FAR IN BACK OF SHIP.

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MAR 3 (CONT.) 6:00 P.M. - DIOMEDEA NIGRIPES (20).

MAR 4 M.S. ASAMA MARU, 1500 MI. OUT OF SAN FRANCISCO.
WEATHER - RAINY, STRONG S. WIND.
SEA TEMP. - 57°F.
11:30 A.M. - DIOMEDEA NIGRIPES (13) - 4 OF THESE WITH WHITE RUMPS & UNDERTAIL COVERTS. SEVERAL MORE WITH WHITE UNDERTAIL COVERTS & PERHAPS JUST A TRACE OF WHITE OR NONE AT ALL ON RUMP.
6:00 P.M. - DIOMEDEA NIGRIPES (16) - AT LEAST 1 ADULT (?) SEEN. DIOMEDEA IMMUTABILIS (2) CLOSER TO SHIP THAN BEFORE.

MAR 5 M.S. ASAMA MARU, 1900 MI OUT OF SAN FRANCISCO.
WEATHER - CLEAR, COOL STRONG W. WIND.
9:00 A.M. - DIOMEDEA NIGRIPES (10), DIOMEDEA IMMUTABILIS (1) ALSO ONE SMALL OCEAN BIRD - BLACK ABOVE WHITE BELOW. FLYING WITH OCCASIONAL FLAPS & MUCH SAILING CLOSE OVER THE WAVE CRESTS & TROUGHS. TOO FAR OFF TO GET COLOR OF BILL OR MUCH OF ANYTHING ELSE. PERHAPS PUFFINUS (OPISTHOMELAS)??.
5:30 P.M., DIOMEDEA NIGRIPES (10)

MAR 6 M.S. ASAMA MARU, 2200 MI OUT OF SAN FRANCISCO WIND - MODERATE W.
WEATHER - RAINY, COOL A.M. VISIBILITY - 3 MI
CLEAR, WARM P.M. VISIBILITY →

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MAR 6 (CONT.) 8:00 A.M. DIOMEDEA NIGRIPES (2), DIOMEDEA IMMUTABILIS (2) ONE QUITE CLOSE TO SHIP.

2:30 P.M. DIOMEDEA NIGRIPES (2) - ADULTS. DIOMEDEA IMMUTABILIS (2) - FAR BACK IN WAKE OF SHIP. SMALL PUFFINUS OPISTHOMELAS ? (DESCRIBED MAR. 6 - ABOVE) - SEEMED TO HAVE SORT OF AN INCOMPLETE THROAT STRIPE - FLYING ALONG WITH SHIP PERHAPS 300-400 YARDS OUT. ALSO 2 & 17 RELATIVELY LARGE BIRDS WITH BREYISH MANTLE & WHITE NECKS, TAILS & UNDERPARTS. WING-TIPS "INK-DIPPED" BLACK WITHOUT SPOTS. ON SOME THE FACE SEEMED TO BE BLACK, BUT BECAUSE OF THE DISTANCE I COULDN'T BE SURE. FLIGHT LIKE THAT OF GULL - MOSTLY FLAPPING NOT GLIDING. PERHAPS RISSA TRIDACTYLA.

5:00 P.M. DIOMEDEA NIGRIPES (4) - TWO ADULTS. DIOMEDEA IMMUTABILIS (3) CLOSE TO SHIP. ALSO ONE PUFFINUS SP.? ~~FOR~~ OUT SWIMMING THE WATER & 4 MORE GULL-LIKE BIRDS (RISSA TRIDACTYLA ?) FLYING AWAY FROM SHIP AS IT PASSED. ONE ON THE WATER - GULL OR TERN-LIKE ATTITUDE.

MAR. 7 M.S. ASAMA MARU, 2550 MI. OUT OF SAN FRANCISCO.

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MAR 7 (CONT.) WEATHER - MOSTLY CLEAR, SLIGHT S.W. WIND. (A.M.) WARM. P.M. WIND-STRONG S.
9:00 A.M. DIOMEDEA NIGRIPES (13) - AT LEAST 4 ADULTS. DIOMEDEA IMMUTABILIS (1).
12:00N SMALL PUFFINUS (?) FLYING QUITE A WAY OUT FROM SHIP. DARK ABOVE, QUITE WHITE BELOW. FLIGHT VERY SWIFT - GLIDING + FLAPPING LIKE A SWALLOW.
5:00 P.M. DIOMEDEA NIGRIPES (18), DIOMEDEA IMMUTABILIS (7) - THESE BIRDS ARE A LITTLE HARD TO SPOT - AT ONE TIME I ONLY SAW 4 BUT A MINUTE OR TWO LATER GARBAGE WAS DUMPED OVERBOARD + 7 OF THEM LANDED ON THE WATER. ALSO SAW TWO SMALL DARK-BACKED, WHITE-UNDERPARTED BIRDS TOO FAR OFF TO IDENTIFY + TWO GULLS WITH BLACK-TIPPED WINGS FLYING ALONG. VERY FAR OUT FROM THE SHIP.

MAR 9 (MAR 8 SKIPPED CROSSING DATE LINE) M.S. ASAMA MARU, 1900 MI. OUT OF YOKOHAMA, JAPAN.
WEATHER - RAINY, COLD. STRONG SW. WIND. VISIBILITY - 2-3 MI.
8:00 A.M. DIOMEDEA NIGRIPES (5), DIOMEDEA IMMUTABILIS (3).
3:00 P.M. DIOMEDEA NIGRIPES (10), DIOMEDEA ~~NIGRIPES~~ IMMUTABILIS (1).

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MAR 10 M.S. ASAMA MARU, 1500 MI. OUT OF YOKOHAMA, JAPAN.

WEATHER - MOSTLY CLEAR, COOL.
WIND - STRONG NW. A.M. P.M. - MODERATE NE.

11:00 AM DIOMEDEA NIGRIPES (5), DIOMEDEA IMMUTABILIS (9)

3:00 P.M. DIOMEDEA NIGRIPES (5), DIOMEDEA IMMUTABILIS (9) - MOSTLY CLOSE TO SHIP.

5:30 P.M. DIOMEDEA NIGRIPES (4), DIOMEDEA IMMUTABILIS (6).

MAR 11 M.S. ASAMA MARU, 1150 MI. FROM YOKOHAMA, JAPAN.

WEATHER - COLD, RAINY. WIND - STRONG W. TO NW.

8:20 A.M. DIOMEDEA NIGRIPES (11), DIOMEDEA IMMUTABILIS (1).

2:30 P.M. DIOMEDEA NIGRIPES (15) - SOME BESIDE & IN FRONT OF SHIP. DIOMEDEA IMMUTABILIS (4) - 3 OF THEM NEAR STERN, 1 QUITE FAR BEHIND SHIP. BILL & FEET FLESH-COLORED, UNDERSIDE OF WINGS WHITE WITH COMPLETE BLACK BORDER & BLACK PATCH IN THE WHITE NEAR BEND OF WING.

MAR 12 M.S. ASAMA MARU, 325 MI. FROM YOKOHAMA, JAPAN.

WEATHER - CLEAR, WARM. MODERATE WEST WIND.

9:30 A.M. DIOMEDEA NIGRIPES (3),

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MAR 12 (CONT.) DIOMEDEA IMMUTABILIS (4), ALSO 1 GULL (?) BLACK-TIPPED WINGS - SAME AS SEEN BEFORE.

12:00 N. DIOMEDEA NIGRIPES (2), DIOMEDEA IMMUTABILIS (7) - 3 OR 4 NEAR STERN, THE OTHERS FAR BACK. PATCHES OF SEAWEED SEEN.

MAR. 13 M.S. ASAMA MARU, 425 MI. FROM YOKOHAMA, JAPAN.

WEATHER - CLOUDY, RAINY. VERY STRONG SSW. WIND.

10:00 A.M. DIOMEDEA NIGRIPES (6), DIOMEDEA IMMUTABILIS (2).

2:30 P.M. DIOMEDEA NIGRIPES (8), DIOMEDEA IMMUTABILIS (2).

MAR 14 M.S. ASAMA MARU, 50 MI. FROM YOKOHAMA, JAPAN.

WEATHER - PARTLY CLOUDY, COOL. WIND - SLIGHT N.

9:30 A.M. DIOMEDEA NIGRIPES (10), DIOMEDEA IMMUTABILIS (3).

MAR. 31 KYOTO, KYOTO-SHI, HONSHU, JAPAN. TOOK A BIKE TRIP EAST OF HIGASHI-KUJO TO LOW HILLS & FIELDS ALONG KAMO RIVER. 15 MILVUS MIGRANS ALONG RIVER.

IN HILLS - STREPTOPELIA ORIENTALIS (1), ALAUDA ARVENSIS (3), HIRUNDO RUSTICA (1), LANIUS BUCEPHALUS (1), HOREITES CANTANS (2), PASSER MONTANUS (5)

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APR 3. FUSHIMIKU, KYOTO CITY, HONSHU, A.M.
JAPAN. CLOUDY, WARM. WIND-SLIGHT
SET OUT 16 MOUSE TRAPS & 1 RAT
TRAP ALONG DIKES IN RICE & VEGETABLE
FIELDS LAST NIGHT. BAIT-PEANUT BUTTER.
FIELDS WET - CRAYFISH HOLES. ONE
CRAYFISH SEEN THIS MORNING. TRAPS
NOT TOUCHED.
SET OUT 2 LARGE & 1 SMALL BIRD
NET THIS A.M. ABOUT 5:15. NO
CATCH. ALAUDA ARVENSIS ALREADY
SINGING. SOME SPECIES OF TURDUS(?)
(5) SEEN IN FIELDS. ALSO 3 MILVUS
MIGRANS AT 5:45.

10H SMALL GREEN FROG PICKED UP IN
GRASS ALONG DIKE. APPLE-GREEN ABOVE
WITH BLACK PATCH OVER RT. EYE.
WHITISH BELOW. IN 1:14 FORMALIN.

BIKE TRIP TO HILLS IN EAST FUSHIMIKU
THIS P.M. WALKED THRU WOODS OF
MOSTLY BAMBOO WITH UNCUT UNDER-
BRUSH HIGHER UP. BIRDS - MILVUS
MIGRANS (5) IN FIELDS, ALAUDA ARVENSIS
(4) IN FIELDS, LANIUS BUCEPHALUS (2),
HOREITES CANTANS (3) SINGING, PASSER
MONTANUS (8) IN VILLAGE. POINT OF
INTEREST NEAR HERE - NICE VIEW
"TOYO-YEN" - T.B. HOSPITAL NEARBY.
STREAMS RUNNING DOWN BOTH SIDES
OF RIDGE.

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APR 3 (CONT.) 105 GREENISH-GREY SNAKE 1033mm COILED ON BUNDLE OF BRUSH HIGH ON DRY, SUNNY, CUT-OVER HILLSIDE. IN 1:9 FORMALIN.

PICKED UP BUTTERFLY (?) PUPA FROM WOODED SLOPE. ALSO SAW LIZARD OR SKINK BUT COULDN'T CATCH HIM. WORKED ALONG STREAM BED & UNDER LOGS & ROCKS IN WOODS BUT NO MORE LUCK.

APR 6. HIGASHIKUJO (KAMO RIVER), SHIMOGYOKU, KYOTO CITY, HONSHU, JAPAN.
A.M. - CLEAR, COLD (30°F) FROST - WEEDS FROZEN.
SET OUT 12 MOUSE TRAPS BAITED WITH PEANUT BUTTER & RAW RICE LAST NIGHT IN WEED CLUMPS ON N. BANK OF RIVER. NO TRAPS SPRUNG.
SET OUT 4 BIRDNETS ALONG BANK THIS MORNING ABOUT 4.45. JUST LIGHT ENOUGH TO SEE WELL THEN.

106 BUNTING (EMBERIZA FUCATA _____) ♂ TESTES 00 CAUGHT IN BOTTOM PART OF NET. IRIS DARK BROWN, LEGS FLESH COLORED. BILL HORN, UPPER MANDIBLE DARKER. NO PARASITES. STOMACH EMPTY. FIRST COLLECTION OF THIS SPECIES.

8 MILVUS MIGRANS FLYING TO RIVER

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APR 6 FUSHIMIKU, (TOYO-YEN), KYOTO CITY, HONSHU, JAPAN.

GRUB FROM ROTTED STUMP

NYCTEREUTES PROCYONOIDES MAY 5, 1955

KYOTO ZOO, HONSHU, JAPAN.

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MAY 5

NYCTEREUTES PROCYONOIDES

NYCTEREUTES PROCYONOIDES

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APR 6 (CONT) FROM THE SE. AT 5:00 AM. EGRETTA SP. FLYING OVERHEAD. ALAUDA ARVENSIS (5) SINGING. TURDUS NAUMANNI (2) + PERHAPS 8 OTHERS OF THIS SPECIES. PASSER MONTANUS (10)

P.M. FUSHIMIKU (TOYO-YEN), KYOTO CITY, HONSHU, JAPAN.

HIKED WITH MRS. ZIEGLER TO THE HILLS + THRU WOODS AS ON APR. 3RD KATE DUG OUT A ROTTED TREE STUMP + FOUND 9 LARGE GRUBS (PHOTO) + A CLICK BEETLE.

107 SMALL GREENISH-GREY FROG FOUND BESIDE ROTTED TREE TRUNK. PERHAPS DUG-OUT OF THE ROTTING WOOD. DARKER LONGITUDINAL PATCHES ON DORSAL SIDE. IN 1:14 FORMALIN.

SET OUT A BIRD NET IN WOODS BESIDE A STREAM + SCATTERED RAW RICE AROUND IT. CHECKED 2.5 HOURS LATER.

108 ♀ (OVARY SL. ENL.) TARSIGER CYANURUS
IRIS - DARK BROWN. FEET + LEGS BROWN. BILL BLACK. STOMACH - INSECT REMAINS.

ALSO COLLECTED 3 LARGE SNAILS FROM UNDER PILES OF BAMBOO TOPS ON HILLSIDE.

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APR 6 (CONT.) 109 SNAIL ALIVE BODY WITH STRIPES LIKE SHELL.

110 SNAIL ALIVE SIMILAR TO 109

111 SNAIL ALIVE

BIRDS SEEN: MILVUS MIGRANS (3), STREPTOPELIA (ORIENTALIS ?) (3), ALAUDA ARVENSIS (5) - IN FIELDS, CORVUS SP. (2), TURDUS SP. (4), LANIUS BUCEPHALUS (2) - KEEPING UP A CONSTANT SQUEAKING & CHATTERING & ONE GIVING WING FLUTTERING MOTIONS OF YOUNG BIRD BUT FULL-SIZED (MAYBE COURTSHIP DISPLAY ?), HORITES CANTANS (2) - CALLING, PASSER MONTANUS (10).

APR 8 HIGASHIKUJO, SHIMOGIYOKU (KAMO RIVER) KYOTO CITY, HONSHU, JAPAN.
WEATHER - CLEAR, WARM. A.M.
SET OUT 4 BIRD NETS AT 5:10 A.M.
NO BIRDS. BIRDS SEEN: EGRETTA SP. (1), MILVUS MIGRANS (4), ALAUDA ARVENSIS (8), TURDUS NAUMANNI (10), PASSER MONTANUS (12), EMBERIZA CIOIDES (4), EMBERIZA FUCATA (1).

P.M. FUSHIMIKU (2 MI. RADIUS OF TOYO-YEN) KYOTO CITY, HONSHU, JAPAN.
PARTLY CLOUDY, WARM. WIND - SLIGHT.
TOOK A BIKE ~~TRIP~~ THRU HILLS & HIKED AROUND FUSHIMI WATER FILTER PLANT.

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APR 8 (CONT.) 3 LIZARDS SEEN, 1 CAUGHT.

112 BROWNISH-GREY LIZARD (TAIL MISSING). UNDERPARTS GREENISH-WHITE. CAUGHT IN LEAVES ON FOREST SLOPE, IN 1:10 FORMALIN. INJECTED.

4 FOOT SNAKE (SAME AS 105 ?) SEEN BUT WAS UNABLE TO CATCH IT. SET OUT A BIRD NET IN BAMBOO GROVE BESIDE WATER HOLE FROM 2:00 PM-4:30 P.M. ONE BIRD.

113 ♂ (TESTES 00) EMBERIZA SPODOCEPHALA _____ IRIS DARK BROWN. FEET & LEGS FLESH. BILL IVORY WITH TOP OF UPPER MANDIBLE BLACK. STOMACH - SAND, INSECT REMAINS & PERHAPS A FEW SEEDS. (AÓ-G1).

BIRDS SEEN: MILVUS MIGRANS (8), STREPTOPELIA (ORIENTALIS?) (4), ALAUDA ARVENSIS (10), HIRUNDO RUSTICA (4), CORVUS SP (3), TURDUS NAUMANNI (30) - MOSTLY ON THE HILLTOPS WHERE THEY SEEMED TO CONGREGATE - CALL QUITE SIMILAR TO OUR T. MIGRATORUS, LANIUS BUCEPHALUS (2) - ONE OF THESE CAGED IN SMALL TOWN, HORITES CANTANS (10) - ALL CALLING, PASSER MONTANUS (10)

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APR 8 (CONT) IN TOWNS & FIELDS, EMBERIZA SPODOCEPHALA (2) - ONE OF THESE NETTED. ALSO 4 UNIDENT. QUAIL OR PHEASANT IN WOODS.

NYCTICORAX NYCTICORAX (1) SEEN OVER KAMO RIVER AT DUSK. ALSO MANY BATS THERE.

APR 9 KAMO RIVER, N. FUSHIMIKU, KYOTO CITY, HONSHU, JAPAN.

SET OUT 17 MOUSE TRAPS ON S. BANK OF RIVER LAST NIGHT IN WEED CLUMPS & GRASS. BAIT PEANUT BUTTER, FLOUR & RAW RICE MIXED. NO MICE BUT 1 TRAP SPRUNG & DEAD RATTUS SP BESIDE IT. NOT COLLECTED.

APR 10 KAMO RIVER, N. FUSHIMIKU, KYOTO CITY, HONSHU, JAPAN.

A.M. - CLOUDY, WARM

SET OUT 17 MOUSE TRAPS IN BRUSH & GRASS ON S. BANK OF RIVER LAST NIGHT. BAIT - PEANUT BUTTER, FLOUR & RAW RICE. NO CATCH BUT 3 TRAPS SPRUNG & BAIT GONE FROM ABOUT HALF OF THEM. MAYBE INSECTS ATE IT.

SET OUT 4 BIRDNETS IN RICE & WHEAT FIELDS WITH MR SHINZO WATANABE AT 4:30 A.M. NO BIRDS

BIRDS SEEN: MILVUS MIGRANS (10), EGRETTA SP. (7+1), STREPTOPELIA (ORIENTALIS?) (1), ALAUDA ARVENSIS (9), CORVUS SP (1), TURDUS NAUMANNI (8), MOTACILLA ALBA (1) (♀?)

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APR 10 (CONT.) LANIUS BUCEPHALUS (1), PASSER MONTANUS (10), EMBERIZA (CIOIDES?) (5)

114 SMALL BROWNISH (CHANGING TO GREEN LATER) FROG. CAUGHT IN GRASS ALONG KAMO RIVER. WHITISH UNDERPARTS WITH GROIN & LEGS SHOWING ORANGISH TINGE. IN 1:14 FORMALIN. INJECTED.

115 SMALL GREENISH FROG. WHITISH BENEATH. GREY-GREEN SPLOTCHES ALONG SIDES. CAUGHT IN GRASS BESIDE SMALL DITCH IN RICE PADDY. IN 1:14 FORMALIN. INJECTED.

116 SMALL BROWNISH-GREEN FROG. SLIGHTLY WARTY. DARKER SPOTS ABOVE. UNDER PARTS WHITISH WITH GROIN & UNDER LEGS QUITE REDDISH. CAUGHT IN SMALL DITCH IN RICE FIELD BY MR. SHINZO WATANABE. IN 1:14 FORMALIN. INJECTED.

P.M. E. FUSHIMIKU (TOYO-YEN), KYOTO CITY, HONSHU, JAPAN.
A LITTLE RAIN, WARM. WIND-SLIGHT. BIKE TRIP TO FUSHIMI FILTER PLANT + ON FOOT THRU WOODS NEAR THERE. BIRD NET SET IN BAMBOO ON HILLSIDE ABOVE STREAM BED 2:00 P.M.-4:00 P.M. NO BIRDS. SMALL (2") CRAB WITH EQUAL CLAWS FOUND UNDER ROCK IN

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APR 10 (CONT.) SHALLOW WATER WHERE STREAM EMPTIED INTO LAKE. 2 TURTLES SUNNING ON LOG IN LAKE.

MILVUS MIGRANS (6), STREPTOPELIA SP. (5), ALCEDO ATTHIS (1) - FIRST OF SEASON SEEN, ALAUDA ARVENSIS (5) - IN FIELDS, HIRUNDO RUSTICA (10), CORVUS SP (1), TURDUS NAUMANNI (10), HOREITES CANTANS (10) - CALLING, PASSER MONTANUS (4) - IN TOWN.

APR 13 E. FUSHIMIKU (TOYO-YEN), KYOTO CITY, HONSHU, JAPAN.

CLEAR, WARM. WIND - SLIGHT.

CAMPED BACK OF FUSHIMI FILTER PLANT NEAR TOYO-YEN LAST NIGHT. SET OUT 17 MOUSE & 1 RAT TRAP. BAITED HALF OF THEM WITH "MISO" (CRUSHED, SALTED & SMOKED BEANS) & THE OTHER HALF WITH MIXED NUTS. CAUGHT ONE MOUSE ON NUTS.

117 ♀ (NO EMB'S) APODEMUS? 160-78-23-16 (W) GREYISH BROWN ABOVE, WHITISH BENEATH. SLIGHTLY HAIRY TAIL. 4 TOES FOREFOOT, 5 TOES REAR FOOT. STOMACH - VEG. MATTER. UNDER LOG NEAR CREEK BED.

THREE OTHER TRAPS SPRUNG BUT BAIT (MISO) IN ONLY ONE OF THESE GONE. NUT BAIT IN RAT TRAP SET BESIDE 1.5" DIA. HOLE ON WOODED HILLSIDE GONE BUT TRAP NOT SPRUNG. FRESH (MOUSE?) SCAT ON TRAP,

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APR 13 (CONT.) WILL TRY A MOUSE TRAP THERE LATER. TRAPS WERE SET IN PAIRS (1 MISO BAIT, 1 NUT BAIT) ON WOODED HILLSIDE BESIDE LOGS & IN BRUSHY STREAM BED BENEATH LOGS & BESIDE ROCKS.

ALSO SET OUT A BIRD NET ALL NIGHT & SCATTERED RAW RICE AROUND IT BUT NO LUCK WHEN I TOOK IT IN AT 6:30 THIS MORNING.

BIRDS LAST NIGHT & THIS MORNING: NYCTICORAX NYCTICORAX (3) - CALLING P.M. & A.M., MILVUS MIGRANS (5) - SOME CALLING - 2 SLURRED NOTES OR SQUEALS TSI - GEEEE !! (— ~~~) SIMILAR TO RED-SHOULDERED'S OR RED-TAILED'S CALL, PHASIANUS VERSICOLOR (?) (1) - HEARD CALLING IN THE WOODS AROUND HERE. NEVER SEEN BUT SEEMS THE ONLY BIRD TO FIT THE DESCRIPTION IN MR. UCHIDA'S JAPANESE BIRDS. THE ONE HEARD THIS A.M. WAS WORKING UP THE BRUSHY BED OF A VERY SHALLOW STREAM & BOG GIVING A LOUD HARSH CALL THAT REMINDED ME MORE OF A PEACOCK THAN A PHEASANT. AFTER EVERY CALL THERE FOLLOWED A BEAT OF WINGS - APPARENTLY THE BIRD FLYING A SHORT DISTANCE AFTER EACH CALL - AS UCHIDA HAD STATED. JAPANESE NAME KI-ZI, BAMBUSICOLA THORACICA (?) (3) - AGAIN NOT POSITIVELY IDENTIFIED BUT QUAIL-LIKE

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APR 13 (CONT) BIRDS MOVING AROUND ON THE GROUND IN THE BAMBOO THICKETS WERE GIVING A WHIPPOORWILL-LIKE CALL "WHIP-A-COY, WHIP-A-COY, ETC" (PERHAPS 10 REPETITIONS) AT DUSK LAST NIGHT & FROM ABOUT 5:45AM ON THIS MORNING. CALL CHECKS WITH JAPANESE BIRDS & BRITISH BIRDS. (KÓZÚ-KI), STREPTOPELIA (ORIENTALIS ?)(2)-SEEN, AN OWL HEARD ABOUT 3 OR 4 AM - 6 HOOTS "HOO-HOO, HOO-HOO-HOOO-HOO!!" THE LAST 4 LIKE A BARRED OWL'S CALL. ALSO 5 HOOTS IN A ROW ALL ON ABOUT THE SAME PITCH. JAPANESE BIRDS GIVES THE CALL OF ASIO OTUS AS SIMILAR TO THIS BUT OTHER BOOKS SAY THE LONG-EARED'S HOOTS ARE FAIRLY SOFT - THESE I HEARD WERE RATHER EMPHATIC. ALAUDA ARVENSIS(5)-IN FIELDS, HIRUNDO RUSTICA (4) - 3 OVER FUSHIMI FILTER PLANT & 1 IN TOWN. TURDUS NAUMANNI (10) IN WOODS CALLING FREQUENTLY, LANIUS BUCEPHALUS (1), HORETTES CANTANS (10) - ALL CALLING "HÓ-HO-KICK-YO", ALSO A "TEA-CHER, TEA-CHER", ETC (— ⌒, — ⌒) & SCOLDING-LIKE NOTES OR SONG. PASSER MONTANUS (3) - ALONG ROAD & IN TOWN.

APR 15 E. FUSHIMI KU (TOYO-YEN), KYOTO CITY, HONSHU, JAPAN.

PARTLY CLOUDY, WARM. WIND-MODERATE NE. CAMPED BACK OF FUSHIMI FILTER PLANT

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APR 15 (CONT.) LAST NIGHT. SET OUT 16 MOUSE & 2 RAT TRAPS BAITED WITH NUTS ON HILLSIDE & IN BRUSHY CREEK BED BESIDE ROCKS & LOGS. SOME TRAPS SET BESIDE HOLES (ABOUT 1.5" DIA) UNDER OLD LOGS. THESE HOLES HAD GNAWED & BROKEN SNAIL SHELLS SCATTERED AROUND THEM.

118 ♀ (NO EMB'S) APODEMUS? 162-76-23-16(N)
STOMACH - A LITTLE VEG.(?) MATTER.

119 ♂ (TESTES 9X16MM) APODEMUS? 228-112-26-16(N)
PARASITES. STOMACH-VEG. MATTER?
WORMS FROM LOWER INTESTINE, MITE(?) FROM FUR.

120 ♂ (TESTES 8X13MM) APODEMUS? 213-116-25-16(N)
PARASITES - RED WORM FROM UPPER DIGESTIVE TRACT (JUST BELOW STOMACH), TAPE WORMS FROM UPPER & LOWER INTESTINES & ROUND-WORMS FROM LOWER INTESTINE.
STOMACH - VEG. MATTER.

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121 ♂ (TESTES 8X15MM) APODEMUS? 211-101-26-17(N)
PARASITES - FLEA & MITES(?) FROM FUR.
STOMACH - VEG. MATTER. SKIN PUT UP BY KAYE ZIEGLER.

BIRD NET SET UP & RAW RICE SCATTERED ABOUT IT BUT NO CATCH. BIRDS:
NYCTICORAX NYCTICORAX (5) - SAW 3 FLYING & HEARD "QWOCKS" FROM SEVERAL DURING EVENING NEAR LAKE, MILVUS MIGRANS (4)

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APR 15 (CONT) -SEVERAL CALLING "PEEE-SERRR" (— ~~), PHASIANUS VERSICOLOR(1) CALLING "EHR-EEHRNCH" (~~) + FLYING (?) AFTER EACH CALL, STREPTO-PELIA ORIENTALIS (3), BAMBUSICOLA THORACICA (2) - CALLING, SAME OWL AS HEARD ON APR 13TH, ALCEDO ATTHIS (1), ALAUDA ARVENSIS (2) - IN FIELDS, HIRUNDO RUSTICA (3) - IN TOWN, CORVUS SP. (1), TURDUS NAUMANNI (5), HOREITES CANTANS (8) - ALL CALLING, PASSER MONTANUS (4) - IN TOWN.

COLLECTED 4 LARGE SNAILS FROM LEAVES & LOGS ON GROUND ABOUT 6:00 A.M. ALL CRAWLING.

122 SNAIL DEAD

123 SNAIL ALIVE

124 SNAIL ALIVE

125 SNAIL ALIVE

APR 16 ISHIDAKITACHIYO, HIGASHIKUJO, SHIMOGI-YOKU, KYOTO CITY, HONSHU, JAPAN.

COLLECTED 6 SMALL SNAILS CRAWLING ON A BACK YARD FENCE DURING THE RAIN ABOUT 1:00 P.M.

126 SNAIL ALIVE

127 SNAIL ALIVE

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APR 16 (CONT) 128 SNAIL ALIVE

129 SNAIL ALIVE

130 SNAIL ALIVE

131 SNAIL ALIVE

APR 17 N. FUSHIMIKU (KAMO RIVER), KYOTO CITY, HONSHU, JAPAN.
RAINY, WARM.
SET OUT 15 MOUSE TRAPS BAITED WITH NUTS ON THE SOUTH BANK OF RIVER LAST NIGHT. TRAPS SET IN BUSHES & GRASS CLUMPS ABOUT 20' APART. CAUGHT 2 MICE BUT BOTH BADLY EATEN. ONE APODEMUS & THE OTHER PROBABLY THE SAME SPECIES ALTO IT COULD HAVE BEEN MUS. NEITHER COLLECTED.

APR 18 S. HIGASHIKUJO (KAMO RIVER), SHIMOGIYOKU, KYOTO CITY, HONSHU, JAPAN.
CLOUDY, COLD. STRONG N. WIND.
SET OUT 15 MOUSE TRAPS BAITED WITH NUTS ON N. BANK OF RIVER LAST NIGHT. TRAPS SET IN BRUSH & WEED HEAPS 15' TO 30' APART. NO TRAPS SPRUNG.
SET OUT 3 BIRD NETS IN VEGETABLE FIELDS AT 4:45 A.M. NO BIRDS.
BIRDS SEEN: MILVUS MIGRANS (7), CORVUS SP. (2), ALAUDA ARVENSIS (5),

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APR 18 (CONT.) LANIUS BUCEPHALUS (1), TURDUS (NAUMANNI?) (3), PASSER MONTANUS (5)
2:00 P.M. — 5:30 P.M. UKYO KU (MATSUO HILLS), KYOTO CITY, HONSHU, JAPAN.

TOOK A BIKE TRIP TO MATSUO STATION ON THE KATSURA RIVER & HIKED UP INTO THE HILLS BEHIND A LARGE SHRINE THERE. THE HILLS WERE CLEARED OF UNDERBRUSH IN MANY PLACES BUT IN OTHERS BRUSH & FERNS WERE THICK. SET OUT A BIRD NET IN A BAMBOO & EVERGREEN GROVE & SCATTERED RAW RICE AROUND BUT NO LUCK. SAW A DEER IN HILLS. — BROWN WITH FAWN-LIKE SPOTS ON BACK & WHITE RUMP PATCH & TAIL. TAIL WITH THIN DORSAL BLACK LINE. TAIL CARRIED DOWN AGAINST RUMP. IT SEEMED AS LARGE AN ANIMAL AS OUR DEER NEAR MEMPHIS, TENN. (CERVUS NIPPON?)

ALSO PICKED A FEW "INDIAN PIPE" FLOWERS GROWING UP THRU LITTER IN DENSE UNDERBRUSH. HEIGHT 4".

BIRDS: MILVUS MIGRANS (2), ALAUDA ARVENSIS (5) - IN FIELDS, HIRUNDO RUSTICA (1) ALONG RIVER & IN FIELDS & TOWNS, CORVUS SP. (1), TURDUS (NAUMANNI?) (15) - IN HILLS, LANIUS BUCEPHALUS (1), HORITES CANTANS (3), PASSER MONTANUS (5) - IN TOWNS. BIRDS SCARCE IN HILLS.

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APR 18 (CONT.) 132 SMALL SNAIL ALIVE ON GRASSY ROAD BANK. N. SIDE OF KAMO RIVER, HIGASHIKUJO, SHIMOGIYOKU, KYOTO CITY, HONSHU, JAPAN.

133 LEECH FOUND ON CONCRETE FLOOR IN OUTSIDE KITCHEN OF HOUSE IN ISHIDA-KITACHYO, HIGASHI-KUJO, SHIMOGIYOKU, KYOTO CITY, HONSHU, JAPAN. IN 1:14 FORMALIN.

APR 19. N. FUSHIMIKU (KAMO RIVER), KYOTO CITY, HONSHU, JAPAN. A.M. CLOUDY, COLD.

SET OUT 15 MOUSE ~~& 2 RAT TRAPS~~ TRAPS LAST NIGHT BAITED WITH NUTS + 2 RAT TRAPS BAITED WITH RAW FISH. THE MOUSE TRAPS WERE SET UNDER BUSHES & IN WEED CLUMPS — 6 ALONG SOUTH BANK OF KAMO RIVER IN SAME PLACE AS ON APR. 17 & 9 ALONG ROADSIDE BESIDE VEGETABLE FIELDS. THE 6 ALONG RIVER WERE ALL SPRUNG BUT NO CATCH (RATS?) — THE OTHERS ALONG ROADSIDE HAD ONLY ONE SPRUNG WITH NOTHING IN IT. THE RAT TRAPS WERE SET ALONG SMALL STREAM BESIDE VEGETABLE FIELDS FOR MUSTELA BUT WERE NOT TOUCHED.

BIKED TO THE JONANGU SHRINE ON KOKUDO ROAD IN FUSHIMIKU. THERE IS A SMALL PATCH OF WOODS AROUND THE SHRINE + I PICKED UP 5 LARGE SNAILS THERE THIS MORNING ON

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APR 19 (CONT.) GROUND IN LEAVES.

134 SNAIL DEAD

135 SNAIL ALIVE

136 SNAIL ALIVE

137 SNAIL ALIVE

138 SNAIL ALIVE

BIRDS THIS A.M.: MILVUS MIGRANS(4), STREPTOPELIA (ORIENTALIS ?) (1), ALAUDA ARVENSIS(5), HIRUNDO RUSTICA (20) - MANY FLYING ALONG KAMO RIVER BANKS, CORVUS SP (2), TURDUS NAUMANNI (2), PASSER MONTANUS(3).

APR 20 FUSHIMIKU (JINGU SHRINE), KYOTO CITY, HONSHU, JAPAN. PARTLY CLOUDY, A.M. AND.
SET OUT 15 MOUSE TRAPS IN SMALL PATCH OF WOODS AROUND SHRINE LAST NIGHT. PICKED THEM UP AT 6:00 AM BUT NO TRAPS SPRUNG. LOOKED LIKE A GOOD PLACE FOR MICE, TOO.
BIRDS: MILVUS MIGRANS (6), ALAUDA ARVENSIS (10), HIRUNDO RUSTICA (15), CORVUS SP. (1), IXOS AMAUROTIS (1) - FIRST OF SEASON, SEEN IN CAMELIA TREE IN BLOOM. THESE BIRDS SEEM TO LIKE THIS TREE OR THE FLOWERS SINCE THEY ARE FREQUENTLY SEEN AROUND THEM.

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APR 20 (CONT) TURDUS (NAUMANNI ?) (1), MOTACILLA GRANDIS (1) - ALSO FIRST SEEN THIS SPRING - ON ROOF OF FACTORY NEAR KAMO RIVER ON SHIME STREET IN HIGASHIKUJO, SHIMOGIYOKU, KYOTO CITY. LANIUS BUCEPHALUS (2) - SEEN IN SAME PLACE ON POWER LINES AS ON 4 OR 5 PREVIOUS TRIPS ALONG KAMO RIVER, PASSER MONTANUS (8).

E. HIGASHIYAMA-KU (JUST S. OF KYOMIZU TEMPLE), KYOTO CITY, HONSHU, JAPAN.
P.M. SLIGHTLY CLOUDY, WARM.

BIKED TO TEMPLE + WALKED THRU HILLS SOUTH OF IT. SAW "INDIAN PIPE" FLOWERS AGAIN ALTHO ONLY HALF THE SIZE OF THE ONES SEEN ON THE 18TH OF APR. FOUND SEVERAL OWL PELLETS UNDER EVERGREENS ON SLOPES. TWO WERE COMPOSED OF FEATHERS (SMALL, WHITISH) WITH A SMALL BONE OR TWO AND THE OTHER THREE CONTAINED FUR + BONES. COLLECTED SOME SKULL BONES WITH TEETH ATTACHED (ONE MUS ?), A BIRD'S MANDIBLE + A TROX BEETLE FROM THE PELLETS.

139 BONES + BEETLE FROM OWL PELLETS.

THESE PELLETS ALSO CONTAINED SHIELDS FROM A SMALL CRAYFISH OR CRAB. THEY WERE THE FIRST PELLETS I'D FOUND IN A YEAR + A HALF OF

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APR 20 (CONT.) HUNTING FOR THEM HERE.
ALSO PICKED UP A TOOTH FROM THE HILLSIDE.

140 TOOTH

CAUGHT A BROWNISH-GREY LIZARD, BLUISH WHITE BENEATH. ON A LEAF-COVERED SUNNY SLOPE. SMALL TICK(?) ATTACHED TO SIDE (COLLECTED)

141 LIZARD IN 1:10 FORMALIN. INJECTED.

BIRDS: MILVUS MIGRANS (3), PHASIANUS (VERSICOLOR ?)(1) - CALLING, BAMBUSICOLA THORACICA (1) - CALLING, ALAUDA ARVENSIS (3) - IN FIELDS, HIRUNDO RUSTICA (10), HORITES CANTANS (3) - CALLING, PASSER MONTANUS (5) - IN TOWN.
ALSO SAW MANY PILES OF DARK BROWN ROUND PELLETS ABOUT 3/4" IN DIA. (RABBIT OR DEER?) ON SLOPES. SAW MANY SIMILAR TO THESE ON THE 18TH OF APR. IN THE HILLS AT MATSUO.

142 SMALL SNAIL ALIVE FOUND ON GROUND IN KITCHEN OF HOUSE IN MATSUBARA DORI, HIGASHIYAMA KU, KYOTO CITY, HONSHU, JAPAN.

APR 22 E. FUSHIMI KU (TOYO-YEN), KYOTO CITY, HONSHU, JAPAN. CLEAR, COOL.
CAMPED NEAR FUSHIMI FILTER PLANT

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APR 22 (CONT.) LAST NIGHT I SET OUT 15 MOUSE & 2 RAT TRAPS ON WOODED & BRUSHY SLOPES ALONG CREEK BED. TRAPS SET IN 3 GROUPS, THOSE IN EACH GROUP APPROX. 30' APART.

143 ♂ (TESTES 8X13MM) APODEMUS? 200-98-26-16 (W) IN RAT TRAP. STOMACH - VEG. MATTER. PARASITES - WORMS FROM LOWER INTESTINE.

144 ♀ (NO EMBS) APODEMUS? 186-92-25½-16 (W) STOMACH - VEG. MATTER. PARASITES FROM FUR. SKELETON COLLECTED ALSO.

145 ♂ (TESTES 2½X5MM) IMM? APODEMUS? 134-65-22-15 (W) STOMACH - VEG MATTER. PARASITES FROM FUR.

146 ♂ (TESTES 2X4MM) IMM? APODEMUS? 130-63-22-14 (W) STOMACH - VEG MATTER PARASITES FROM FUR.

147 ♂ (TESTES 6X11MM) APODEMUS? 202-97-26-17 (W) STOMACH - VEG. MATTER. WORMS COLLECTED (ROUND & TAPE).

148 ♀ (5 SCARS) APODEMUS? 210-100-24-16 (W) STOMACH - VEG. MATTER. PARASITES - TAPE & ROUND WORMS & MITES FROM FUR. 2 PAIR THORACIC, 2 PAIR INGUINAL MAMMAE.

149 ♂ (TESTES 2X5MM) APODEMUS? 200-100-25-17 (W) SKIN BY KAYE ZIEGLER. STOMACH - VEG

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APR 22 (CONT.) MATTER. PARASITES FROM SKIN (MOSTLY IN EARS)

150 ♀ (4 SCARS) APODEMUS ? 211-96-25-1 (ND) STOMACH-VEG. MATTER. PARASITES FROM SKIN (MITES OR NITS & TICK FROM FACE) & ROUND WORM FROM LOWER INTESTINE. 2 PAIR THORACIC, 2 PAIR INGUINAL MAMMAE.

ALSO SET OUT 2 BIRD NETS IN THICKETS NEAR CREEK BUT NO LUCK. BIRDS SEEN OR HEARD: NYCTICORAX NYCTICORAX (20), MILVUS MIGRANS (5), PHASIANUS VERSICOLOR (2 ♂ CALLING & 1 ♀ SEEN), BAMBUSICOLA THORACICA (2) - CALLING, ALCEDO ATTHIS (2) - ON LAKE, ALAUDA ARVENSIS (1) - IN FIELDS, HIRUNDO RUSTICA (10) - NESTING UNDER EAVES OF HOUSES IN TOWN, CORVUS SP. (1), TURDUS (NAUMANNI?) (3), HOREITES CANTANS (8) - CALLING, SOME GIVING A DIFFERENT CALL - "UUH-UUH-GUISE" (— — —), PASSER MONTANUS (4) - IN TOWN.

CUT SEVERAL BAMBOO SPROUTS 10" TALL & 4" THICK TO EAT. THEY HAVE QUITE A LAXATIVE EFFECT BUT SURE ARE GOOD EATING WHEN COOKED WITH SOY SAUCE.

APR. 24 N. FUSHIMIKU (KAMO RIVER), KYOTO CITY, HONSHU, JAPAN. WARM, RAIN IN

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APR 24 (CONT.) EARLY A.M.

SET OUT 15 MOUSE TRAPS ALONG S. BANK OF RIVER LAST NIGHT WITH KAYE. TRAPS SET IN THREE GROUPS IN BUSHES & WEED CLUMPS. THOSE IN EACH GROUP SET APPROX. 20' APART. NO MICE - ONLY TWO TRAPS SPRUNG.

BIRDS: EGRETTA SP. (1) - ON BAR IN RIVER, NYCTICORAX NYCTICORAX (4) - AT DUSK LAST NIGHT OVER RIVER, MILVUS MIGRANS (5), ALAUDA ARVENSIS (10), HIRUNDO RUSTICA (4), CORVUS SP. (1), TURDUS (NAUMANNI?) (1), PASSER MONTANUS (2).

SAW MANY BATS AT TWILIGHT LAST NIGHT ALONG BANKS BESIDE RIVER. CHECKED UNDER THE RIVER BRIDGES THIS A.M. FOR SLEEPING BATS BUT NO LUCK.

APR 25 SHINO MARKET, NAKANYOKU, KYOTO CITY, HONSHU, JAPAN.

WALKED THRU THE FARMERS' MARKET WITH KAYE. BOUGHT 5 EGGS SAID TO BE COTURNIX COTURNIX (Ú-ZU-RA) THESE ARE PUT UP IN BOXES BY SOME POULTRY COMPANY WHICH RAISES THE BIRDS. SAW YOUNG (PLUCKED) OF THE SAME SPECIES FOR SALE THERE. THE EGGS WERE 5 YEN EACH - LESS THAN 2 CENTS APIECE. THEY ARE SAID TO PROVIDE A GREAT DEAL OF ENERGY WHEN EATEN.

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APR 25 (CONT.) 151 EGG COTURNIX COTURNIX ?

152 EGG COTURNIX COTURNIX ?

153 EGG COTURNIX COTURNIX ?

154 EGG COTURNIX COTURNIX ?

155 EGG COTURNIX COTURNIX ?

APR 27 YODO-SHI, KYOTO-FU, HONSHU, JAPAN.
CLEAR, WARM, IN P.M.

BIKED HERE THIS P.M. TO CHECK ON AN UNUSED WATER PIPE THAT WAS SUPPOSED TO BE USED BY BATS DURING THE DAY. DIDN'T FIND THE PIPE, THO. A PUMPING STATION ON THE EDGE OF THE KATSURA RIVER WAS BEING RENOVATED & THE PIPE MIGHT HAVE BEEN MOVED OR USED IN THE CONSTRUCTION.

CAUGHT 2 FROGS & 1 LIZARD IN THE GRASS ALONG THE RIVER EMBANKMENT.

156 FROG GREENISH WITH DARK GREEN SPOTS ON LEGS & SIDES. THIN YELLOWISH DORSAL MEDIAN STRIPE. WHITISH BENEATH. IN 1:12 FORMALIN. INJECTED.

157 FROG GREENISH WITH DARK GREEN SPOTCHES ON LEGS & SIDES.

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APR 27 (CONT.) THIN YELLOWISH DORSAL MEDIAN STRIPE. WHITISH BENEATH. IN 1:12 FORMALIN. INJECTED.

158 LIZARD GREYISH ABOVE, BLUISH-WHITE BENEATH. TAIL SEPARATED BUT COLLECTED.

PICKED UP 2 LARGE FRESH WATER SNAILS + OPERCULA WHICH MAY OR MAY NOT GO WITH THESE INDIVIDUAL SPECIMENS SINCE I GOT THEM FROM A PILE OF OTHER DEAD SNAILS ON THE KATSURA RIVER EMBANKMENT. A LOCAL WOMAN SAID THEY CAME FROM THE RIVER & WERE EATEN BY THE PEOPLE AROUND THERE. ALSO SEVERAL SMALL SHELLS FOUND INSIDE THE LARGER ONES.

159 SNAIL DEAD + OPERCULUM

160 SNAIL DEAD + OPERCULUM

161 SEVERAL SMALL SNAILS FROM INSIDE #159 + #160.

BIRDS: MILVUS MIGRANS (15) - MANY ALONG RIVER EDGE (WITH CROWS), ALAUDA ARVENSIS (8), HIRUNDO RUSTICA (10), CORVUS SP. (10) - ALONG RIVER, LANIUS BUCEPHALUS (1), PASSER MONTANUS (12).

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APR 29 1 MI. W. YODO, KYOTO-FU, HONSHU, JAPAN.
CLOUDY, WARM.

CAMPED IN BAMBOO GROVE ¼ MI. FROM KATSURA RIVER LAST NIGHT. SET OUT 13 MOUSE TRAPS + 3 RAT TRAPS. (10 MOUSE & 2 RAT TRAPS IN BAMBOO GROVE IN WEEDS & BRUSH HEAPS. 3 MOUSE + 1 RAT TRAP IN OVERGROWN BORDERS OF VEGETABLE FIELDS.) TRAPS SET APPROX. 50' APART. THE VEGETABLE FIELDS LOOKED AS IF THEY MIGHT HAVE BEEN FLOODED AT ONE TIME BY A CREEK RUNNING THRU THEM. CAUGHT ONE MOUSE IN FIELDS; OTHER TRAPS THERE NOT TOUCHED.

162 ♀ (NO EMB'S) MICROTUS ? 122-37-19-12 (W)
STOMACH - GREEN VEG. MATTER.

ONE MOUSE CAUGHT AT 7:15 LAST NIGHT IN RAT TRAP SET NEAR BURROW ENTRANCE (1½" IN DIA.) IN SHALLOW GULLY IN BAMBOO GROVE. TRAP RESET & ANOTHER MOUSE IN SAME TRAP THIS MORNING. OTHER TRAPS NOT SPRUNG.

163 ♂ (TESTES 9X15MM) APODEMUS ? 167-58 (TIP MISSING) -27-17 (W) STOMACH - VEG. MATTER. PARASITES FROM FUR.

164 ♂ (TESTES 9X16MM) APODEMUS ? 206-102-25-16 (W)
STOMACH - VEG. MATTER. PARASITES FROM FUR.

SET OUT 3 BIRD NETS IN FIELDS & ONE

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APR 29 (CONT) IN BAMBOO. CAUGHT ONE BIRD IN FIELDS.

165 ♂ (TESTES 00) EMBERIZA SPODOCEPHALA ?
IRIS DARK BROWN. FEET + LEGS HORN. LOWER MANDIBLE FLESH, UPPER MANDIBLE BLACK. STOMACH EMPTY.

CAUGHT SEVERAL FROGS IN THE GRASS IN VEGETABLE FIELDS.

166 FROG GREENISH ABOVE WITH DARK GREEN SPLOTCHES. WHITISH BENEATH. IN 1:10 FORMALIN. INJECTED.

167 FROG GREENISH-GREY WITH DARKER SPLOTCHES ABOVE. GREEN DORSAL MEDIAN STRIPE. A BRONZE STRIPE RUNNING THRU EACH EYE NEARLY TO THE ANUS ALONG THE UPPER SIDES. WHITISH BENEATH. IN 1:10 FORMALIN. INJECTED.

168 FROG GREENISH-GREY ABOVE WITH DARKER SPLOTCHES. WHITISH BENEATH. IN 1:10 FORMALIN. INJECTED

169 FROG GREENISH-GREY ABOVE WITH DARKER SPLOTCHES. WHITISH BENEATH. IN 1:10 FORMALIN. INJECTED.

ALSO COLLECTED SEVERAL SNAILS FROM GROUND + BAMBOO TRUNKS IN THE GROVE. TWO SNAILS TAKEN FROM

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APR 29 (CONT) BOTTOM OF CREEK FLOWING THRU FIELDS. MOST OF THE SNAILS IN THE CREEK HAD THE TIPS OF THE SHELLS BROKEN. THERE WERE TWO TYPES – ONE LONG & THIN AND THE OTHER SHORT & THICK. ONE OF EACH TYPE COLLECTED.

170 SNAIL ALIVE FROM BAMBOO GROVE.

171 SNAIL ALIVE FROM BAMBOO GROVE.

172 SNAIL ALIVE FROM BAMBOO GROVE.

173 SNAIL ALIVE FROM BAMBOO GROVE.

174 SNAIL ALIVE FROM BAMBOO GROVE.

175 SNAIL ALIVE FROM BAMBOO GROVE

176 SNAIL ALIVE + OPERCULUM. FROM CREEK. BODY WITH SMALL SNAILS INSIDE COLLECTED.

177 SNAIL ALIVE + OPERCULUM. FROM CREEK.

BIRDS SEEN OR HEARD: ARDEA SP. ?(1), EGRETTA SP(15), NYCTICORAX NYCTICORAX(2) – CALLING, MILVUS MIGRANS (12), CAPELLA SP.(2) – IN VEGETABLE FIELDS, ONE OWL(?) HEARD – A LOW GROWLING OR WHEEZING

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APR 29 (CONT.) "GRUS, GRUS, GEEE HAHH-HA" ABOUT 6:00 A.M. I HAD HEARD TWO OF THE SAME AT THE FUSHIMI FILTER PLANT IN FUSHIMIKU ON THE MORNING OF APR. 15TH BUT WASN'T SURE IT WAS A BIRD OR NOT — PERHAPS STRIX URALENSIS? ALSO HEARD A FARAWAY "TOO-TOO, TOO-TOO, TOO-TOO, ETC" WHICH MAY HAVE BEEN NINOX SCUTULATA, ALAUDA ARVENSIS (20), HIRUNDO RUSTICA (20), CORVUS SP. (3), TURDUS NAUMANNI (2), TURDUS SP. (5) - ALL IN FIELDS, LANIUS BUCEPHALUS (3) - ONE NEARLY FULL-GROWN YOUNG (?) — FLUTTERING WINGS & OPENING MOUTH FOR FOOD, PASSER MONTANUS (10) - IN TOWN & ALONG ROADS, EMBERIZA SPODOCEPHALA (1) - NETTED.

APR 30 FUJINOMORI, FUSHIMIKU, KYOTO CITY, HONSHU, JAPAN. COOL, RAINY.

WENT TO THE HOME OF MR. & MRS. MINORU SAKANOSHITA THIS EVENING TO COLLECT GECKOES WHICH THEY SAID CAME OUT EACH NIGHT IN WARM WEATHER TO CATCH INSECTS ON THEIR WINDOWS. DIDN'T SEE ANY TONIGHT MAYBE BECAUSE IT WAS RAINING, BUT MINORU HAD CAUGHT ONE JUST BEFORE KAYOKO & I ARRIVED. THE JAPANESE ARE QUITE AFRAID OF THESE - MINORU CAUGHT THIS ONE BY PUTTING A CAN OVER IT — SAYING THEIR BITE IS POISONOUS. THIS GECKO WAS A SMALL

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APR 30 (CONT.) ONE; SOME OF THE OTHERS AT THE HOUSE WERE LARGER I WAS TOLD. THEY SAID MANY OLD JAPANESE HOUSES HAD THESE GECKOES OR "YA-MORI." THE JAPANESE MAKE A DISTINCTION BETWEEN THE GECKOES, WHICH CAN WALK ON GLASS, & THE LIZARDS OR "TOE-KAGE" WHICH CANNOT.

1 28 GECKO + TIP OF TAIL. GREYISH-TAN WITH DARKER SPLOTCHES. IN 1:10 FORMALIN. INJECTED.

MAY 1 YAWATA (SHRINE), KYOTO-FU, HONSHU, JAPAN. RAINY, CLEARING LATER IN A.M., WARM.

TOOK A STREETCAR TO YODO WITH MR. SHINZO WATANABE TO FIND THE WATER PIPE WITH BATS IN IT. IT HAD BEEN PUT UNDER THE RIVER LEVEE ALREADY + AS I HAD NO FLASHLIGHT I COULDN'T LOOK FOR BATS IN THERE, BUT ONE OF SHINZO'S FRIENDS WHO LIVES NEARBY SAID HE WOULD LOOK IN THERE OCCASIONALLY + LET US KNOW IF BATS WERE ROOSTING THERE.

THEN WE WENT TO YAWATA, A MOUNTAIN WITH A LARGE SHRINE ATOP IT. THERE IS ALSO A MONUMENT TO T.A. EDISON WHO I WAS TOLD FOUND SOME SPECIAL KIND OF BAMBOO THERE TO USE IN HIS LIGHT BULBS OR SOMETHING.

COLLECTED TWO SNAILS ON A SHADY

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MAY 11 (CONT) HILLSIDE NEAR AN ABANDONED CABLE CAR HOUSE, MANY TAN AND TAN + BLACK STRIPED SNAILS SIMILAR TO THOSE I COLLECTED BEFORE SEEN AROUND HERE — SOMETIMES 12 OR MORE ON ONE LARGE TREE TRUNK.

179 SNAIL - LARGE ALIVE

180 SNAIL DEAD. TOP OF SHELL FLATTISH + UNDERSIDE INFLATED.

SAW OR HEARD 3 IXOS AMAUROTIS — MANY CAMELIA TREES HERE. MANY COLUMBA LIVIA BEING FED AT SHRINE.

¼ MI. S. YAMASHINA, HIGASHIYAMAKU, KYOTO CITY, HONSHU, JAPAN. P.M. CLEAR, WARM. MODERATE W. WIND.

BIKED WITH MR. MINORU SAKANOSHITA OVER THE LOW HIGASHI YAMA HILLS TO FIELDS JUST SOUTH OF THIS CITY. COLLECTED THREE LIZARDS FROM DRY ROCKS + LOGS NEAR ROAD.

181 LIZARD GREYISH-BROWN ABOVE, UNDERPARTS MOSTLY YELLOWISH. TAIL REGROWN(?). IN 1:10 FORMALIN. INJECTED.

182 LIZARD GREYISH-BROWN ABOVE, MOSTLY YELLOWISH BELOW (STOMACH + CHEST) IN 1:10 FORMALIN. INJECTED.

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MAY 11 (CONT.) 183 LIZARD GREYISH BROWN ABOVE, STOMACH & CHEST YELLOWISH. IN 1:10 FORMALIN. INJECTED.

ALSO COLLECTED A FEW SALAMANDERS OR NEWTS FROM A 3' WIDE, 6"-10" DEEP STREAM RUNNING THRU VEGETABLE FIELDS. ABOUT 20-25 SALAMANDERS SEEN OR DIPPED OUT WITH MINNOW NET. THEY ARE FAIRLY EASILY CAUGHT BY HAND ALSO, OFTEN COMING BACK TO THE SAME PLACE AFTER BEING MISSED ON THE FIRST ATTEMPT TO CATCH THEM. JAPANESE NAME "I-MORI". THESE WERE FOUND IN TWO SEPARATE STREAMS - A THIRD STREAM IN HILLS DID NOT SHOW ANY NEWTS IN A QUICK 5 MINUTE SEARCH.

184 NEWT BLACKISH ABOVE, REDDISH WITH BLACK SPLOTCHES BENEATH. TAIL A LITTLE SWOLLEN & DISCOLORED. IN 1:10 FORMALIN. INJECTED.

185 NEWT BROWNISH ABOVE, ORANGE WITH BLACK SPLOTCHES BENEATH. IN 1:10 FORMALIN. INJECTED.

186 NEWT BLACKISH ABOVE, ORANGE WITH BLACK SPLOTCHES BENEATH. IN 1:10 FORMALIN. INJECTED.

187 NEWT DARK BROWN ABOVE, REDDISH

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MAY 11 (CONT) WITH BLACK SPLOTCHES BENEATH. IN 1:10 FORMALIN. INJECTED.

188 NEWT BLACKISH ABOVE, RED WITH BLACK SPLOTCHES BENEATH. IN 1:10 FORMALIN. INJECTED.

189 NEWT BLACKISH ABOVE, ORANGE WITH BLACK SPLOTCHES BENEATH. TAIL A LITTLE SWOLLEN & DISCOLORED. IN 1:10 FORMALIN. INJECTED.

TWO FROGS FROM GRASS BESIDE STREAM. MANY FROGS SEEN IN DITCHES & IN WATER IN HONEY BUCKET CISTERNS. SOME IN COITUS.

190 FROG (TOAD?) MOTTLED MUDDY GREEN ABOVE, GREYISH WITH WHITE SPOTS BENEATH. IN 1:10 FORMALIN. INJECTED.

191 FROG (TOAD?) MOTTLED MUDDY GREEN ABOVE, GREYISH WITH WHITE SPOTS BENEATH. IN 1:10 FORMALIN. INJECTED.

192 FISH(?) GREYISH-GREEN ABOVE, WHITISH BELOW. FROM SHALLOW MUDDY CREEK. IN 1:10 FORMALIN. INJECTED

P.M. FUJINOMORI, FUSHIMIKU, KYOTO CITY, HONSHU, JAPAN.

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MAY 1 (CONT.) CAUGHT A SMALL GECKO OUTSIDE A WINDOW OF MINORU SAKANOSHITA'S HOME. SAW TWO MORE OF THE SAME SIZE. ALSO SAW A GREENISH SNAKE ON ROOF OUTSIDE 2ND STORY ROOM. SAME SPECIES AS I COLLECTED BEFORE? ABOUT 3' LONG. SNAKE SKIN CAUGHT ON WOOD IN OUTDOOR KITCHEN CEILING.

193 GECKO GREYISH-TAN WITH DARKER MARKINGS ABOVE, WHITISH BELOW. PARASITES (SMALL, HAIRY & RED) FROM SIDES, TOP OF FEET & FROM BETWEEN PADS ON SOLES OF FEET. IN 1:10 FORMALIN. INJECTED.

MAY 3 KAMO RIVER, N. FUSHIMIKU, KYOTO CITY, HONSHU, JAPAN. RAIN ABOUT 5:00 A.M., WARM.

SET OUT 15 MOUSE & 3 RAT TRAPS LAST NIGHT IN WEED & SMALL BAMBOO CLUMPS ALONG SOUTH EMBANKMENT OF RIVER. TRAPS SET IN 3'S & 4'S, EACH GROUP 100' FROM THE NEXT. CAUGHT ONE MOUSE - OTHER TRAPS NOT TOUCHED.

194 ♀ (3 EMB'S 8 X 10 MM, 1 EMB 3 X 3 MM) APODEMUS 198-101-25-17 MM. STOMACH - VEG. MATTER. 2 PAIR THORACIC MAMMAE, 2 PAIR INGUINAL. PARASITES FROM FUR. EMBRYOS COLLECTED. SKULL BROKEN.

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MAY 3 (CONT.) ALSO SET OUT 4 BIRD NETS — NO LUCK. PICKED UP 2 SNAILS FROM GRASS.

195 SNAIL ALIVE FROM VEGETABLE FIELD. BODY SPECKLED WITH DARK BROWN.

196 SNAIL ALIVE FROM RIVER EMBANKMENT. BODY SPECKLED WITH DARK BROWN.

MAY 5 KAMO RIVER, N. FUSHIMIKU, KYOTO CITY, HONSHU, JAPAN. CLEAR, WARM.
SET OUT 14 MOUSE & 3 RAT TRAPS LAST NIGHT ALONG S. EMBANKMENT OF RIVER ABOUT 50' FROM RIVER'S EDGE. TRAPS SET IN GROUPS OF 4 — EACH GROUP 50' APART IN WEED CLUMPS. NO TRAPS TOUCHED AT 6:00 A.M.

MAY 6 FUJINOMORI, FUSHIMIKU, KYOTO CITY, HONSHU, JAPAN.
MR. MINORU SAWANOSHITA BROUGHT IN A GECKO CAUGHT AT NIGHT ON OUTSIDE OF WINDOW PANE AT HIS HOME.

197 GECKO MOTTLED GREYISH TAN ABOVE. RED PARASITES FROM FEET. FECES SHOWED INSECT WINGS. IN 1:10 FORMALIN. INJECTED.

THE <u>KYOTO</u> <u>SHIMBUN</u> NEWSPAPER RAN A STORY & PICTURE OF GIANT

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MAY 6 (CONT.) SALAMANDER (SAN-SHO-UO) CAUGHT IN CASSION WITH MOST OF WATER EMPTIED OUT. (SUNK TO ENABLE DEEPENING OF KAMO RIVER AT SHICHIJO STREET BRIDGE IN SHIMOGIYOKU, KYOTO CITY.) MY BOOK ON PACIFIC REPTILES SAYS THE SALAMANDERS (WHICH THE AUTHOR CALLS "HAN-SAKI" - A NAME THAT NONE OF THE JAPANESE AROUND HERE KNOW) LIVE IN THE MOUNTAINS BETWEEN 1,300 & 3,000 FT. THIS SPECIMEN GIVEN TO KYOTO ZOO.

THE PAPER ALSO TOLD OF A BADGER (MELES MELES?) CAUGHT IN THE MOUNTAINS OF KYOTO PREFECTURE & GIVEN TO THE ZOO.

MAY 8 YAWATA SHRINE, KYOTO-FU, HONSHU, JAPAN. CLOUDY, WARM.

CAMPED ON THE MOUNTAIN HERE LAST NIGHT NEAR THE SHRINE. SET OUT 15 MOUSE & 3 RAT TRAPS IN UNDERBRUSH ON WOODED HILLSIDE, TRAPS SET IN TWO GROUPS - THOSE IN ONE ABOUT 10' APART NEAR A STREAM & THOSE IN THE OTHER ABOUT 40' APART. 2 MICE CAUGHT & TWO OTHER TRAPS SPRUNG. BAIT GONE ON SOME AMONG STREAM.

198 ♀ (5 SCARS) APODEMUS? 212-109-25-16 (N) NURSING? 2 PAIR THORACIC, 2 PAIR INGUINAL MAMMAE. PARASITES FROM INSIDE EARS,

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MAY 8 (CONT.) WORMS FROM INTESTINE. STOMACH-VEG. MATTER.

199 ♂ (TESTES 3x5MM) APODEMUS ? 187-92-25-15gm PARASITES FROM FUR. STOMACH-VEG. MATTER + POSSIBLY SOME INSECT OR SNAIL REMAINS. (NOSE + EARS EATEN BY ANTS).

SEARCHED ABANDONED CABLE CAR HOUSE + TWO OLD CABLE CAR TUNNELS FOR BATS BUT NO LUCK. LATHS + PLASTER PULLED OFF FIRST 4 OR 5 FEET OF INNER WALLS IN CABLE CAR HOUSE (PERHAPS FOR FIREWOOD BY PICNICKERS) SO I COULD LOOK UP FOR 10 FEET OR SO INTO THE INNER WALLS WITH A FLASHLIGHT BUT NO BATS. ALSO LOOKED IN 3 ABANDONED FARM HOUSES WITH SAME RESULTS.

BIRDS: MILVUS MIGRANS (20), NINOX SCUTULATA (1) - + POSSIBLY 2 - CALLING, ALSO HEARD THE SAME "HOO-HOO HOO-HOO-HOO-HAA" AS HEARD AT TOYO-YEN LAST APR. 13. ONE + POSSIBLY TWO BIRDS CALLING ABOUT 8:00 P.M. + 3:30 A.M. ALSO HEARD THE SAME "GRUS-GRUS GEE-HAA-AH" AS HEARD AT TOYO-YEN + YOUD. THIS ONE HEARD ABOUT 7:00 A.M. BAMBUSICOLA THORACICA (2) - "WHIP-A-COY" CALL BUT ALSO SOME OTHER NOTES. HIRUNDO RUSTICA (5)

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MAY 8 (CONT.) AEGITHALOS CAUDATUS (10) - (E-NÁ-GA), TURDUS SP. (3), HORETES CANTANS (3), PASSER MONTANUS (5).

SET OUT TWO BIRD NETS ON HILLSIDE ABOVE SLIDE AREA - NO LUCK.

PICKED BAMBOO SPROUTS FOR SUPPER BUT ONLY A FEW OF THE YOUNGER ONES LEFT - MOST OF THE SPROUTS NOW 10'-15' HIGH & 4"-5" THICK.

MAY 10 1 MI. W. YODO, KYOTO-FU, HONSHU, JAPAN. (SAME AREA AS ON APR. 29, 1955) CLOUDY, WARM.

CAMPED LAST NIGHT & SET OUT 14 MOUSE & 2 RAT TRAPS IN TALL GRASS IN FIELDS. TRAPS SET IN GROUPS OF 3 ABOUT 300' APART. TRAPS IN EACH GROUP 10'-15' APART.

200 ♀ (6 SCARS) APODEMUS ? 198-98-25-16 (N) STOMACH - A LITTLE VEG. MATTER. 2 PAIR INGUINAL, 2 PAIR THORACIC MAMMAE.

CAUGHT A MOUSE ON SINGLE TRAP SET IN GULLY IN BAMBOO GROVE, 3RD MOUSE FROM THIS GULLY & NO MICE (APR. 29, '55) FROM REST OF GROVE.

201 ♀ (4 SCARS) APODEMUS ? 197-88-24-15½ (N) 2 PAIR INGUINAL, 2 PAIR THORACIC MAMMAE. STOMACH - VEG. MATTER (?) & SNAIL REMAINS (??) SKULL BROKEN.

~~BLACKED FATE UNIV. ON ROCKS AA.~~

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MAY 10 (CONT.) ALSO COLLECTED 3 SMALL SNAILS FROM MANY OF THE SAME KIND IN GRASS + ON GROUND IN FIELDS.

202 SNAIL ALIVE

203 SNAIL ALIVE

204 SNAIL ALIVE

BIRDS: ARDEA (PURPUREA?)(3) - AT DUSK, EGRETTA SP. (20 UNIDENT.) - FLYING OVER LAST NIGHT, EGRETTA INTERMEDIA (?)(8) - IN RICE FIELDS THIS A.M., NYCTICORAX NYCTICORAX (10), MILVUS MIGRANS (10), CAPELLA SP. (2) - IN FLIGHT OVER FIELDS, HEARD THE SAME WHEEZY, GROWLING "GRUS - GRUS GEE-HAA-HAA" AS BEFORE ABOUT 7:00 A.M. IN BAMBOO THICKET. LOOKED BUT NO LUCK. ALAUDA ARVENSIS (15) - IN FIELDS, HIRUNDO RUSTICA (15), TURDUS SP. (3), LANIUS BUCEPHALUS (6), PASSER MONTANUS (10) - IN TOWNS.

MAY 13 TOYO-YEN, E. FUSHIMI KU, ~~HONSHU~~ KYOTO CITY, HONSHU, JAPAN. A LITTLE RAIN, WARM.

CAMPED BACK OF FUSHIMI FILTER PLANT LAST NIGHT + SET OUT 15 MOUSE + 2 RAT TRAPS IN GROUPS OF 3 200' APART. TRAPS IN EACH GROUP SET ABOUT 10' APART. CAUGHT 3 MICE - ONE WITH BROKEN SKULL SKINNED

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MAY 13 (CONT.) & LABELED BY KAYE (#1 K. ZIEGLER)

LOUISIANA STATE UNIV. BATON ROUGE, LA.

205 ♀ (6 SCARS +3 OLD(?)) APODEMUS ? 207-110-25-16(W)
PARASITES FROM SKIN & INTESTINES.
STOMACH FULL - VEG. MATTER. 2 PAIR THORACIC, 2 PAIR INGUINAL MAMMAE.
TRAPPED AT 8:15 P.M. LAST NIGHT.

206 ♂ (TESTES 2½x5MM) APODEMUS ? 177-95-23-15(W)
PARASITES FROM FUR & 1 WORM FROM INTESTINE. STOMACH - VEG.(?) MATTER.

207 LEECH PICKED UP IN WOODS ON GROUND. "HAMMERHEAD" SHAPE.

208 SMALL SNAIL ALIVE PICKED UP ON GROUND IN WOODS.

MET A FELLOW TRAPPING BIRDS WITH SOME SORT OF BIRD LIME SPREAD ON LIMBS OF TREES AROUND A CAGED ZOSTEROPS PALPEBROSA. HE ALSO USED A WHISTLE TO DECOY BIRDS IN. NO BIRDS TRAPPED THIS MORNING BUT PREVIOUSLY HE SAID HE HAD CAUGHT VARIOUS KINDS OF PARUS IN THESE WOODS. HE SAID HE HAD USED THE ZOSTEROPS FOR 5 YEARS.

I SET OUT 2 BIRD NETS ON EDGE OF WOODS BUT HAD NO LUCK.

BIRDS: NYCTICORAX NYCTICORAX (5), MILVUS MIGRANS (4), PHASIANUS VERSICOLOR (1). FINALLY SAW THE BIRD

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MAY 13 (CONT.) THAT I ALWAYS HEARD CALLING "GRUS-GRUS GEE-HAA-HAA" - IT WAS STREPTOPELIA ORIENTALIS (3), NINOX SCUTULATA (1), ALAUDA ARVENSIS (3), HIRUNDO RUSTICA (8) - IN TOWNS, CORVUS SP. (2+), AEGITHALOS CAUDATUS (20), ZOSTEROPS PALPEBROSA (1) - BESIDE THE CAGED ONE, TURDUS SP. (3), HORETES CANTANS (6), PASSER MONTANUS (10) - AROUND HOUSES, EMBERIZA (CIOIDES?) (3).

209 SMALL ARACHNID(?) FROM APODEMUS (#1 K. ZIEGLER).

210 ♀ (NO EMB's) RATTUS 224-111-33-17(W) CAUGHT BY CAT IN OUTDOOR KITCHEN AT HOME IN ISHIDA KITACHIYO, HIGASHIKUJO, SHIMOGIYOKU, KYOTO CITY, HONSHU, JAPAN. PARASITES FROM FUR. STOMACH EMPTY.

MAY 15 YAWATA SHRINE, KYOTO-FU, HONSHU, JAPAN. CLEAR, WARM.

CAMPED ON HILL ACROSS FROM SHRINE WITH MR. SHINZO WATANABE LAST NIGHT & SET OUT 15 MOUSE + 2 RAT TRAPS. GOT ONLY THE TAIL SKIN OF AN APODEMUS? IN ONE RAT TRAP + AN APODEMUS? IN A MOUSE TRAP. OTHER TRAPS NOT SPRUNG BUT BAIT EATEN OUT OF SEVERAL OF THEM. TRAPS SET IN GROUPS OF 3 QUITE A DISTANCE APART

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MAY 15 (CONT.) ON BRUSHY HILLSIDE. TRAPS IN EACH GROUP 15'-25' APART.

211 ♂ (TESTES 00) RODEMUS ? 183-89-24-15 (4) PARASITES FROM FUR. SKIN PARTLY EATEN BY ANTS. STOMACH - VEG. MATTER & REMAINS OF SMALL INSECT. HIND PARTS MANGY.

BIRDS: MILVUS MIGRANS (10) - APPARENTLY ROOSTING NEAR TOP OF MOUNTAIN, NINOX SCUTULATA (1) - CALLING LAST NIGHT & THIS MORNING, HIRUNDO RUSTICA (8) - IN TOWNS, CORVUS SP. (1 +) - CALLING, IXOS AMAUROTIS (5). ALSO SAW & HEARD ONE BIRD VERY EARLY THIS MORNING FLYING WITH MOTH-LIKE ACTIONS. CALL - "CUCK, CUCK, CUCK, ETC." ABOUT SIZE OF GOAT-SUCKER - PROBABLY CAPRIMULGUS INDICUS, HOREITES CANTANS (5), PASSER MONTANUS (15) - SOME NEAR MOUNTAIN TOP IN PINES, EMBERIZA CIOIDES (3 ♂) - SINGING FROM TREE-TOPS ON PARTLY CUT-OVER HILLSIDE.

MAY 17 MATSUO, UKYO-KU, KYOTO CITY, HONSHU, JAPAN. CLEAR (CLOUDY THIS A.M.), WARM.

CAMPED IN HILLS LAST NIGHT & SET OUT 15 MOUSE & 2 RAT TRAPS DOWN A BRUSHY HILLSIDE TO CREEK BED. TRAPS SET 30'-40' APART. BAIT GONE FROM SEVERAL TRAPS BUT NONE

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MAY 17 (CONT.) SPRUNG. SAW A SMALL GREYISH-BROWN RABBIT & NEARLY CAUGHT IT WITH MY HANDS.

SET OUT TWO BIRD NETS ON HILLSIDE BUT NO LUCK.

BIRDS: NYCTICORAX NYCTICORAX (1) - CALLING, MILVUS MIGRANS (3), AN OWL (ASIO OTUS ?) CALLING LATE IN AFTERNOON & EARLY IN MORNING - "YOO-HOO, HOO-HOO-HOO, YHOO-HOO". PICUS AWOKERA (AO-GERA), CAPRIMULGUS INDICUS (?) (1) - CALLING ABOUT DARK, HIRUNDO RUSTICA (5) - IN TOWNS, IXOS AMAUROTIS (4+) - VERY NOISY, HARPITES CANTANS (2), PASSER MONTANUS (10) - IN TOWNS, EMBERIZA CIOIDES (?) (1) - CALLING.

212 SNAIL ALIVE BRUSHY HILLSIDE

213 CENTIPEDE ALIVE OPEN PATH ON HILLSIDE.

MAY 18 ISHIDAKITACHIYO, HIGASHIKUJO, SHIMOGIYOKU, KYOTO CITY, HONSHU, JAPAN. WARM, RAINY.

214 LEECH ALIVE PICKED OFF OF CONCRETE STEP IN BACK YARD OF HOUSE. YELLOW-BROWN WITH BLACK MEDIAN DORSAL STRIPE. IN 1:10 FORMALIN.

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GENERA OF JAPANESE BIRDS

PODICEPS	CHARADRIUS
DIOMEDEA	CAPELLA
PHALACROCORAX	LARUS
ARDEA	STERNA
EGRETTA	COLUMBA
NYCTICORAX	STREPTOPELIA
CYGNUS	NINOX
BRANTA	APUS
ANSER	ALCEDO
ANAS	DRYOBATES
NYROCA	ALAUDA
ACCIPTER	HIRUNDO
MILVUS	CORVUS
BUTEO	IXOS
FALCO	PARUS
PHASIANUS	CINCLUS
GRUS	TROGLODYTES

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TURDUS

PHOENICURUS

SAXICOLA

MOTACILLA

ANTHUS

BOMBYCILLA

LANIUS

STURNUS

ACROCEPHALUS

HORTITES.

PASSER

EMBERIZA

CHLORIS

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SEPT. MUIR WOODS, MARIN CO., CALIF.

"LADYBUGS" (ORANGE WITH BLACK SPOTS)
CLUSTERING IN REDWOOD GROVE.

TWO CLUSTERS OF SAME INSECTS.

(NO FIELD NOTES ON THIS TRIP)

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SEPT 24. UNIV. CALIF. CAMPUS, BERKELEY, ALAMEDA CO., CALIF.

PICKED UP A SMALL FLYCATCHER DEAD UNDER OAKS BESIDE LIFE SCIENCES BLDG. EYE RING, WINGBARS. LIGHT YELLOWISH BENEATH. IRIS - DARK BROWN. UP. MANDIBLE BLACK, LOWER FLESH COLORED. LEGS + FEET DARK. STOMACH CONTENTS - INSECT REMAINS. 1 PARASITE - LOUSE.

OCT 13. 2200 BLOCK HASTE ST., BERKELEY, ALAMEDA CO., CALIF.

KAYE ZIEGLER BROUGHT IN A SPARROW ♂ (IMM. ZONOTRICHIA LEUCOPHRYS ?) THAT WAS CAUGHT BY A CAT THIS P.M. IRIS. DARK BROWN BILL - YELLOW WITH TIP OF UPPER MANDIBLE BROWN. LEGS & FEET - LT. BROWN. STOMACH CONTENTS - SEEDS + VEG. MATTER, LITTLE SAND.

DEC 28, MOSS BEACH, SAN MATEO CO. CALIF. (NYES BEACH & HOTEL) (SEE MAP IN REVISED LIGHTS MANUAL)
WORKED THE LOW TIDE THIS P.M. WITH BILL LEBWE, JOHN LAWRENCE, + KARL HACKMULLER CAUGHT 1 LARGE OCTUPUS & 3 SMALL IN POOLS NEAR BREAKERLINE AS TIDE WENT OUT. ALSO TWO ~~LARGE~~ BOTTLES & 6 VIALS OF INVERTS IN 1:10 FORMALIN. QUITE A FEW ABALONE 4 TO 8 INCHES.
SET OUT 25 MUSEUM SPECIMENS WITH PEANUTS IN FIELD BESIDE NYES & AROUND CATTAIL MARSH ALONG VICENTE CREEK NEAR BEACH.

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NYE'S HOTEL, MOSS BEACH, SAN MATEO CO., CALIF.

DEC. 29

MOSS BEACH FROM NYE'S PARKING LOT.

BIRD CARCASS ON BEACH - BLACK + WHITE

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DEC. 29 NYE'S HOTEL, MOSS BEACH, SAN MATEO CO. CALIF.

CAUGHT 2 MICROTUS, 1 PEROMYSCUS & 1 MUS (MUS EATEN IN TRAP) ALSO 1 TAIL (PEROMYSCUS)? SAVED PEROMYSCUS & 2 MICROTUS. 2 OR 3 OTHER TRAPS SPRUNG, OTHERS NOT TOUCHED. BOYS FOUND A BIRD (CALIF. MURRE?) OILED-UP BELOW. ALONG BEACH. OILED FEATHERS REMOVED & BIRD PUT BACK IN WATER - SEEMED O.K. BUT NOT TOO ACTIVE. PHOTOS TAKEN OF BIRD & BEACH FLATS.

WORKED THE LOW TIDE AGAIN THIS AFTERNOON & GOT A COUPLE OF "WORMS". OTHER PEOPLE FOUND TWO MORE SMALL OCTOPI. KARL HAEMMERLE GOT TWO "LEATHER STARS". ABOUT 5" ACROSS. OUT NEAR LOW TIDE LINE ON ROCKS. THERE WAS LITTLE INVERTEBRATE LIFE WAY OUT ON ROCKS COMPARED TO THAT FURTHER INTOWARD BEACH. ONLY LOTS OF URCHINS, SOME CRABS & STARFISH; MUSSEL BEDS ON SOMEWHAT ROCKS & A FEW ABALONE.

END 1955

ZIEGLER
1956

CATALOG

Ziegler, A. C.
1956
Catalogue
nos. 220-438

A. ZIEGLER
1956

CATALOG

WILDCAT CANYON, CONTRA COSTA CO., CALIFORNIA

MAR. 10

37 LAB CALIF. 220 THOMOMYS — ABOUT 30"

½ MI W GRIZZLY PEAK, ~~E. UNIV. CALIF CAMPUS~~, OAKLAND, ALAMEDA CO., CALIF.

MAR. 22

R. ROSS S.C.

221 ♀ CYANOCITTA STELLERI — IRIS DARK BROWN

222 ♂ (TESTES 8X5MM) " " — IRIS DARK BROWN

STRAWBERRY CANYON, ~~U.C. CAMPUS, OAKLAND~~ BERKELEY, ALAMEDA CO., CALIF

MAR 24 — (223–232 COLL. BY S.B. BENSON)

223 ♂ (TESTES 9X12MM) THOMOMYS — 220-67-27-6(N)

224 ♀ WREN-TIT — IRIS ~~BLACK~~ WHITISH

" 225 ♂ (TESTES 00) WREN-TIT — IRIS WHITISH

J.E. HOWELL UNIV. TENN. KNOXVILLE 226 ♀ SPOTTED TOWHEE — IRIS REDDISH-ORANGE (SKIN BY W.C. RUSSELL)

D. R.C. ROSS L.A.S.C. 227 ♀ BROWN TOWHEE — IRIS REDDISH-BROWN (SKIN BY W.C. RUSSELL)

" 228 ♀ FOX SPARROW — BIRD VERY THIN

" 229 ♂ (TES. 7X10MM) PEROMYSCUS CALIFORNICUS — 242-120-26-24(N)

" 230 ♂ (TES 6X9MM) PEROMYSCUS TRUEI — 193-98-22-21(N)

T. R.H. JOHNSON U. ARIZONA 231 ♀ SONG SPARROW — IRIS DARK BROWN

T. R.C. ROSS L.S.C. 232 ♂ TES. 00 GOLDEN-CROWNED SPARROW — IRIS DARK BROWN

POINT ISABEL, CONTRA COSTA CO., CALIF.

MAR. 25

T. N.V.Z. SKULL ONLY 233 SEX? MICROTUS (~~EATEN IN TRAP~~) TAIL - 50, H.F. - 20 MM.

T. C. ROSS L.S.C. 234 ♀ (NO EMB'S) MUS? — 120-63-17-1(N)

T. N.V.Z. 235 ♂ (TESTES 00) MICROTUS (IMMATURE) 94-27-18-10(N)

" 236 ♀ (5 CLASPS OF VERY SMALL EMB'S) MICROTUS — 154-41-20-15(N)

MAR 29

" 237 ♀ (NO EMB'S) MICROTUS — 144-40-21-14(N)

" 238 ♀ (5 EMB'S 9MM) " — 148-40-20-14(N)

" 239 ♀ (NO EMB'S) " PARTLY EATEN IN TRAP — 149-40-19-15(N)

MAR 30

T. R.C. ROSS L.A.S.C. 240 ♂ (TESTES 6X9MM) SONG SPARROW — IRIS BROWN

.ZICOLOR
1956

CATALOG

STRAWBERRY CANYON, U.C. CAMPUS, OAKLAND, ALAMEDA CO., CALIF.
APR 3

D.R.C. ROSS
H.S.C. 241 ♂ (TESTES 4X6MM) PEROGNATHUS — COLL. BY S.B. BENSON ON MAR 23, 1956 — 205-114-24-11(N)

POINT ISABEL, CONTRA COSTA CO., CALIF.
APR 8

J.Z. 242 ♀ (NO EMBS) MICROTUS — 146-42-20 - EARS DISEASED
" 243 ♀ (NO EMBS) " — 142-41-20-14(N)
" 244 ♂ (TES. 4X2½ MM) " — 130-34-19-13(N)
" 245 ♂ (TES OO) " — 112-31-19-12(N)

½ MI. W GRIZZLY PEAK, OAKLAND, ALAMEDA CO., CALIF.
APR. 9

D.C. ROSS
H.S.C. 246 ♀ JUNCO — IRIS BROWN — HEAVY FAT DEPOSITS

POINT ISABEL, CONTRA COSTA CO., CALIF
APR 15

TO: M.V.Z. 247 ♂ (TESTES 8X5MM) MICROTUS — 160-50-21-14(N)
" 248 ♀ (5 SCARS) " — 144-43-20-15(N)
" 249 ♀ (4 EMB'S 4MM) " — 139-38-20-14(N)

APR 22

SCY 250 (SKULL ONLY PICKED OUT OF GREYHOUNDS HAIR) " MICROTUS

251 ♂ TES OO DONITCHER (FOUND DEAD ON MARSH) HEAVY FAT DEPOSITS — IRIS ~~DARK~~ BROWN

UNIV. OF CALIF CAMPUS, BERKELEY, ALAMEDA CO., CALIFORNIA
APR 24

D.C. ROSS
H.S.C. 252 ♀ BOMBYCILLA — IRIS BROWN

WILDCAT CANYON, TILDEN REGIONAL PARK, CONTRA COSTA CO., CALIF.
APR 28

" 253 ♀ TURDUS MIGRATORIUS ~~IRIS~~ — FOUND DEAD APR 28, 1956 IRIS BROWN

POINT ISABEL, CONTRA COSTA CO., CALIF.
APR. 29

TO: M.V.Z. 254 ♀ (4 FRESH SCARS) MICROTUS — 156-45-20-14(N)

C. ZIEGLER
1956

CATALOG

POINT ISABEL, CONTRA COSTA CO., CALIF.

APR 29 (CONT)

T.O. M.V.Z.	255	♂ (TES. 5x7mm)	MICROTUS	183 – 49 – 21 – 15 (N)
"	256	♀ (4-8mm EMBS)	"	150 – 44 – 19 – 14 (N)
"	257	♂ (TES 8x5mm)	"	170 – 47 – 20 – 14 (N)
J. JOHNSON U. ARIZ.	258	♀ (OVARY ENLARGED)	SONG (?) SPARROW	IRIS BROWN

½ MI. W GRIZZLY PEAK, OAKLAND, ALAMEDA CO., CALIF.

MAY 1 — FROM VIC LEWIN

ROSS C.	259	♂ TES 4x8mm	CALIF. JAY	IRIS BROWN.
	260	♀ LARG. OVUM 2x2mm	PIPILO MACULATUS	IRIS REDDISH ORANGE
	261	♂ TES 7x10mm	" "	IRIS RED

POINT ISABEL, CONTRA COSTA CO., CALIF

MAY 6

T.O. M.V.Z.	262	♂ (TES. 7x5mm)	MICROTUS	162 – 49 – 22 – 16 (N)
"	263	♂ (TES. 7x5mm)	"	162 – 46 – 22 – 14 (N)
"	264	♀ (3-25mm EMB'S)	"	147 – 44 – 19 – 14 (N)
"	265	♂ (TES 4x5mm)	"	147 – 45 – 21 – 14 (N)
"	266	♀ (NO EMB'S)	"	137 – 41 – 19 – 14 (N)
SARGOO	267	SKULL ONLY SEX? PICK-UP	RATTUS	FUR ALMOST YELLOW-BROWN

WILDCAT CANYON, CONTRA COSTA CO., CALIF

MAY 12 (FROM ZOOLOGY FIELD CLASS)

S.V. – 140 mm TOTAL – 300 mm
DIED – Dec. 26, 1959

268	♂ (?)	GERRHONOTUS MULTICARINATUS	
269	♀ (?)	" "	" "

LE CONTE & LA LOMA ST., BERKELEY, ALAMEDA CO., CALIF.

MAY 15 — FOUND DEAD BY FRED TURNER

R.C. ROSS	270	♀ (YSCARS) SCIURUS NIGER	510 – 231 – 64 – 29"

½ MI. W GRIZZLY PEAK, OAKLAND, ALAMEDA CO., CALIF

MAY 17 — FROM VIC LEWIN

"	271	♂ (TES 3x5mm)	CALIF. JAY — IRIS BROWN

.C. ZIEBLER
1956

CALIFORNIA

WILDCAT CANYON, CONTRA COSTA CO. CALIF.

MAY 19

DISCARDED 272? SEE PICKUP MOLE SKULL FROM OWL PELLETS.
273 PITUOPHIS CATENIFER ALIVE
274 TARICHA TOROSA ALIVE. RELEASED

¼ MI. W GRIZZLY PEAK, OAKLAND, ALAMEDA CO., CALIF.

MAY 24 (VIC LEWIN)

TO MVZ. 275 ♂ (TES 5x8mm) TOXOSTOMA REDIVIVUM IRIS REDDISH-BROWN

17 MI. SW RED ROCK (PINAL CO.), PIMA CO., ARIZONA.

(COLLECTED BY PRENTICE BLODGEN JAN 30, 1956)
PUT UP — MAY 26

HOWELL TERM. DEVILS 276 ♀ (1-1½ mm DIA. EMB RT SIDE) MACROTUS CALIFORNICUS NO MEASUREMENTS.
277 ♀ (1-1½ mm DIA. EMB RT. SIDE) " " 91-38-13-31 (N)
278 ♀ (1-1½ mm DIA EMB RT SIDE + 1 SCAR? 1mm DIA.) " " 86-36-13-31 (N)
(CONTINUED WITH # 281)

½ MI. W GRIZZLY PEAK, OAKLAND, ALAMEDA CO., CALIF.

MAY 28 (FROM VIC LEWIN)

MVZ. 279 ♂ (TESTES 5x10mm) TOXOSTOMA REDIVIVUM IRIS REDDISH BROWN.

SAN PABLO RIDGE (NEAR BERKELEY), CONTRA COSTA CO. CALIF.

MAY 25 (PUT UP MAY 31, 1956) FROM RAMON RATTI

ROSS S.C. 280 ♂ (TESTES 3x4mm) SCRUB JAY IRIS ??

17 MI. SW RED ROCK (PINAL CO.), PIMA CO., ARIZONA

(COLLECTED JAN. 30, 1956)
PUT UP - ~~MAY 26~~ JUNE 2

COLLECTOR PRENTICE BLODGEN

281 ♀ (1-1½ mm DIA. EMB RT. SIDE) MACROTUS CALIFORNICUS 90-38-13-30 (N)
282 ♀ (1-1½ mm DIA. EMB. RT. SIDE) " " 91-38-14-32 (N)
283 ♀ (1-2 mm DIA. EMB RT. SIDE) " " 85-32-12-32 (N)
284 ♀ (1-2 mm DIA. EMB RT. SIDE) " " 92-36-12-34 (N)
(CONTINUED WITH # 310)

C. ZIEGLER
1956

CATALOG

CORRAL HOLLOW, ALAMEDA & SAN JOAQUIN Co's., CALIF.

JUNE 10

H.R.C. Ross S.S.C.	285	♂ (TES 4x8mm)	PEROMYSCUS MANICULATUS	J. LAWRENCE 142-66-23-16 (N)
"	286	♀ (NO EMB'S)	DIPODOMYS HEERMANNI	267-165-42-16 (N)

6 MI. W WESTLEY (INGRAM CANYON), STANISLAUS Co., CALIF.

JUNE 15

" M.V.Z.	287	♀ (NO EMB'S)	PIPESTRELLUS HESPERUS (?)	J. COOK & E. BROCK 4.8 gm 75-31-5-6 (N)

JUNE 16

"	288	♂ (TES 3x5mm)	REITHRO.	J. COOK 121-68-17-12 (N)
"	289	♂ (TES 6x10mm)	PEROMYSCUS	J. COOK 200-102-23-23 (N)

(MORE BELOW)

WESTACO MINE, 23 MI. E SAN JOSE, SANTA CLARA Co., CALIF.

JUNE 16 (CONT.)

H.S. Ross S.S.C.	290	♀ (1-16mm DIA. EMB. RT. SIDE)	EPTESICUS	110-44-11-17 (N)
"	291	♀ (1-17mm DIA EMB RT. SIDE)	"	115-47-11-17 (N)
"	292	♂ (TES 3x6mm)	ANTROZOUS	110-42-12-30 (N)

(MORE BELOW)

1 MI SE INVERNESS, MARIN Co., CALIF.

JUNE 17 — S.B. BENSON

TO: M.V.Z.	293	♂ (TES 3x4mm)	THOMOMYS	247-82-31-6 (N) 210 gm

6 MI. W WESTLEY (INGRAM CANYON), STANISLAUS Co., CALIF

JUNE 16 (CONT) — ALTOGETHER (N)

"	294	♂ TES 5x9mm	PEROMYSCUS MANICULATUS	147-66-20-15
"	295	♂ TES 4x7mm	" "	140-62-19-15 (N)
"	296	♀ 4 SERES	" "	(BACK BROKEN) 164-73-19-14 (N)

CORRAL HOLLOW, [redacted] SAN JOAQUIN Co., CALIF.

JUNE 15 (CONT)

"	297	♂ (TES 3x6½mm)	CORYNORHINUS	ALTOGETHER (N) [illegible]-42-11-33 (N)

L.C. ZIEGLER
1956

CATALOG

WESTVACO MINE, 23 MI. E SAN JOSE, SANTA CLARA CO., CALIF.

JUNE 16 (CONT.) — A. E. ZIEGLER COLL.

TO: M.V.Z.	298	♂	(TES 2x3mm)	TADARIDA	98 - 36 - 11 - 17 (N)
"	299	♀	(1-20mm DIA EMB RT. SIDE)	EPTESICUS	120 - 45 - 12 - 18 (N)
"	300	♂	(TES 3x5mm)	ANTROZOUS	109 - 43 - 13 - 28 (N)
"	301	♂	(TES 4x6mm)	"	115 - 43 - 13 - 27 (N)
"	302	♂	(TES 4x6mm)	"	109 - 39 - 13 - 28 (N)
"	303	♂	(TES 3x5mm)	"	109 - 41 - 13 - 27 (N)
"	304	♂	(TES 3½x5mm)	"	115 - 46 - 13 - 28 (N)
"	305	♂	(TES TES 3x6mm)	"	110 - 39 - 13 - 29 (N)
"	306	♂	(TES 4x6mm)	"	108 - 41 - 13 - 28 (N)
"	307	♂	(TES TES 3x6mm)	"	110 - 42 - 12 - 28 (N)
"	308	♂	(TES TES 2½x5mm)	"	113 - 42 - 13 - 29 (N)

MODESTO (CITY LIMITS), STANISLAUS CO., CALIF.

JUNE 27 — RICHARD W. RUSSELL

"	309	♀	(NO EMB'S)	MUSTELA	196 gm 388 - 139 - 44 - 23 (N)

17 MI. SW RED ROCK (PINAL CO.), PIMA CO., ARIZONA

(COLL. JAN. 30, 1956. — PUT UP JUNE 28?) — PRENTICE BLOGOSH

TO: PETE SCHRAMM M.V.Z.	310	♂	(TESTES)	MACROTUS	94 - 35 - 14 - 32 (N)
	311	♀	(1-1½mm DIA EMB. RT. SIDE)	"	92 - 38 - 12 - 32 (N)
	312	♀	(1-1½mm DIA EMB. RT. SIDE)	"	93 - 38 - 13 - 32 (N)
	313	♂	(TES TES)	"	91 - 34 - 13 - 32 (N)
	314	♀	(1-2mm DIA EMB RT. SIDE)	"	89 - 33 - 13 - 32 (N)

(CONT. WITH # 320)

1 MI. SE INVERNESS, MARIN CO., CALIFORNIA

JULY 1 — S. B. BONSON

TO: M.V.Z.	315	♀	(?)	SOREX (TROWBRIDGII?)	WT. 5.6 gm 116 - 50 - 14 - 8 (N)
"	316	♀	(?)	" "	WT. 5.0 gm 116 - 51 - 13 - 8 (N)
"	317	♀	(VAGINA OPEN NO EMB)	" "	WT. 5.2 gm 75 (TAIL CONC) - 12 - 14 - 9 (N)
(WM. BROWLITH) TO: R. C. ROSS L.A.S.C.	318	♀	(NO EMBS)	" "	WT. 5.0 gm 116 - 51 - 14 - 9 (N)

ZIEGLER
1956

CATALOG

ORINDA ~~[illegible]~~, (ORINDA GOLF COURSE), CONTRA COSTA CO., CALIF.

JULY 10, ~~1956~~ — CHAS. E. STIRTON

TO: M.V.Z. 319 ♂ (TESTES 2½x5mm) THOMOMYS BOTTAE (ALBINO) 236-80-31-8 (N)

17 MI. SW RED ROCK (PINAL CO.), PIMA CO., ARIZONA

COLL. JAN. 30, 1956 — PUT UP JULY 28
COLL. - PRENTICE BLOEDEL

320 ♂ (TESTES 1x1mm) MACROTUS CALIFORNICUS 91-35-13-34 (N)
HOWELL TENN. FULLING 321 ♂ (TESTES 1x1½mm) " " 89-33-13-33 (N)
322 ♀ (1-2mm DIA EMB) " " 90-34-12-33 (N)
323 ♀ (NO DATA. UTERUS SACCULO. DESTROYED) " " 90-35-13-34 (N)
CROSS S.C. 324 ♀ (1-1½mm DIA EMB RT. SIDE) " " 90-34-12-33 (N)
(CONT. WITH 326)

CORRAL HOLLOW, 2 MI. E CO. LINE, SAN JOAQUIN CO., CALIF.

COLL. - JEFFERY COOK

COLL. JULY 29, 1956 PUT UP AUG 1, 1956
WT. JULY 31 - 6.4gm 94-37-9-34 (N)
WT. AUG 1 (DEAD) - 6.3gm

TO: M.V.Z. 325 ♂ (TESTES 2½x5mm) CORYNORHINUS

17 MI. SW RED ROCK (PINAL CO.), PIMA CO., ARIZONA

COLL. JAN 30, 1956 - PUT UP AUG 11, 1956
COLL. - PRENTICE BLOEDEL

CROSS S.C. 326 ♀ (1-2mm DIA EMB RT. SIDE) MACROTUS CALIFORNICUS 95-38-13-33 (N)
327 ♀ (1-1½mm DIA. EMB RT SIDE) " " 94-37-12-34 (N)
328 ♂ (TESTIS 1x1-mm) " " 89-36-12-33 (N)
329 ♀ (1-2mm DIA EMB. RT. SIDE) " " 92-35-13-34 (N)

OAKLAND (½ MI. W GRIZZLY PEAK), ALAMEDA CO., CALIF.

COLL. AUG 17, 1956, PUT UP AUG 18, 1956
COLL. - VIC LEWIN

TO: M.V.Z. 330 ♂ (TESTES 4x8mm) RABBIT (SYLVILAGUS BACHMANI?) 281-25-61-53 (N)
WT. (ON AUG 18) - 337.1gm

17 MI. SW RED ROCK (PINAL CO.), PIMA CO., ARIZONA

COLL. JAN 30, 1956 - PUT UP AUG 18, 1956
COLL. - PRENTICE BLOEDEL

331 ♀ (1-1½mm DIA EMB. RT. SIDE) MACROTUS CALIFORNICUS 89-36-13-34 (N)
332 ♂ (TESTES 1x1½mm) " " 90-34-12-33 (N)
333 ♀ (1-2mm DIA EMB RT. SIDE) " " 94-36-13+-35 (N)
334 ♀ (1-1½mm DIA. EMB. RT SIDE) " " 95-39-12-33 (N)
335 ♀ (1-2mm DIA. EMB. RT. SIDE) " " 95-37-12-34 (N)

J.C. ZIEBLER
1956

CATALOG

BERKELEY (M.V.Z.), ALAMEDA CO., CALIFORNIA

(PUT UP) SEPT I — COLL? DATE?

TO: J.C. HOWELL UNIV. TENN. KNOXVILLE

336 ♀ (NO EMB'S) EPTESICUS FUSCUS ? — 118 - 45 - 11 - 15 (N)

BERKELEY (1200 BLOCK OXFORD AVE.) ALAMEDA CO. CALIF.

SEPT 3.

C. ROSS. S.C. 337 ♂ (TES 00) SWAINSON THRUSH (?) — HEAVY FAT DEPOSITS IRIS - DARK BROWN WT. 40.7 gm.

3/4 MI. SE WHITE HOUSE RANCH (S 23, T13S R15E), 170± FT., MADERA CO. CALIF.

COLL. SEPT 6, 1956 (WEIGHED & PUT UP SEPT 10) — COLL. J. COOK.

M.V.Z. ACCN 9262 (2)

338 ♀ (6 EMB'S 9x18MM) RETHRODONTOMYS MEGALOTIS — 155 - 81 - 16 - 13 (N) (WT. 19.1 gm)

339 ♀ (5 EMB'S 9x12MM) " " — 145 - 74 - 16 - 13½ (N) (WT. - 13.0 gm.)

C. ROSS S.C. 340 ♂ (TESTES 8x5½MM) " " — 128 - 66 - 16 - 13 (N)

SULLIVAN BROWN 341 ♂ (TESTES 6x10 MM) DIPODOMYS NITRATOIDES — 223 - 129 - 32 - 12 (N)

SAN RAFAEL, MARIN CO., CALIF.

(82 SOUTHERN HTS. BLVD) 300± FT.

COLL. ABOUT SEPT 1, 1956 PUT UP SEPT 11.

ALCOHOL MUMMY 342 SEX ? NEUROTRICHUS GIBBSI (MUMMY) — COLL. DR RICHARD TABOR

ACCN 9263 (1) 343 ♂ (TESTES 1x2MM) " " — WT. 10.4 gm (FROZEN) 110 - 38 - 16 - 0

NEW COLUMBIA RANCH, SEC. 11, T13S, R15E, MADERA CO., CALIF.

COLL SEPT 14, PUT UP SEPT 19 (FROZEN) 21.7 gm

344 ♀ (NO EMB) DIPODOMYS NITRATOIDES — 209 - 122 - 31 - 10 (N)

BERKELEY (STRAWBERRY CANYON), ALAMEDA CO., CALIFORNIA

(COLL) SEPT. 17, PUT UP & WEIGHED SEPT. 21 (COLL) BILL MAHOR

300 CALIF. ~3090

345 ♂ (TESTES 14x21MM) SPILOGALE PUTORIUS — (- SCENT GLANDS WT. 774 gm) 470 - 156 - 46 - 31 (N)

STRAWBERRY CANYON, BERKELEY, ALAMEDA CO., CALIF.

SEPT 24

TO: J. C. HOWELL UNIV. TENN. KNOXVILLE

346 ♂ (TESTES 2x4MM) PEROGNATHUS CALIFORNICUS — 190 - 110 - 25 - 12 (N) WT. 23.5 gm.

SEPT. 26

347 ♀ (4 EMBS 7x11 MM) RETHRODONTOMYS MEGALOTIS — 143 - 66 - 15½ - 11 (N) WT. 13.3 gm

A.C. ZIEGLER
1956

CATALOG

SAGEHEN CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO., CALIF.

SEPT. 28

348 ♀ (7 SCARS) PEROMYSCUS MANICULATUS 169-64-20-18(N) WT. 20.7 gm

SEPT. 29

349 ♀ (NO EMBS) SOREX VAGRANS 95-39-13-7(N) WT. 5.7 gm
350 ♀ (NO EMBS) EUTAMIAS AMOENUS 199-88-32-19(N) WT. 43.3 gm
351 ♀ (6 SCARS) EUTAMIAS SPECIOSUS 220-90-34-19(N) WT. 69.5 gm
352 ♂ (TESTES 3x8 mm) ~~EUTAMIAS LATERALIS~~ CITELLUS 265-90-39-22(N) WT. 194.0 gm
353 ♂ (TESTES 2x4 mm) EUTAMIAS AMOENUS 203-81-32-17(N) WT. 46.8 gm
354 ♂ (TESTES 2x4 mm) " " 197-80-30-17(N) WT. 39.8 gm

SEPT. 30

355 ♀ (NO EMBS) MICROTUS MONTANUS 161-42-21-14(N) (COLL. JOHN LAWRENCE) WT. 39.4 gm
356 ♂ (TESTES 1½x3 mm) " " 136-36-19-13(N) (COLL. J. LAWRENCE) WT. 31.4 gm
357 ♂ (TESTES 3x5 mm) MICROTUS LONGICAUDUS 153-51-23-14(N) WT. 28.4 gm
358 ♂ (TESTES 6x9 mm) " " 174-60-23-15(N) WT. 38.7 gm
359 ♂ (TESTES 1½x2 mm) " " 159-53-22-13(N) WT. 31.1 gm
360 ♂ (TESTES 5x10 mm) PEROMYSCUS MANICULATUS 170-78-20-17(N) WT. 20.1 gm
→ CONT'D WITH #366

SILVER CANYON, 4600 FT., 5 MI. ENE BISHOP, INYO CO., CALIFORNIA

COLL. OCT 12, 1956 (PUT UP OCT 17, 1956) COLLECTOR: WILLIAM W. DUNMIRE

361 ♀ (NO EMB'S) PEROGNATHUS FORMOSUS 186-107-22-11(N) WT. 17.4
362 ♀ (NO EMB'S) " " " 190-107-23-11(N) WT. 19.1
363 ♀ (NO EMB'S) DIPODOMYS MICROPS 212-125-38-12(N) WT. 30.0
364 ♂ (TESTES 2x4 mm) " " 258-153-42-13(N) WT. 48.9
365 ♂ (TESTES 6x9 mm) NEOTOMA LEPIDA 282-123-29-24(N) WT. 118.6

SAGEHEN CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO., CALIF.

COLL. SEPT. 30, (PUT UP OCT 19, 1956)

366 ♀ (NO EMB'S) EUTAMIAS AMOENUS 200-85-31-17(N) WT. 44.2
367 ♂ (TESTES 1½x4 mm) " " 193-83-32-16(N) (PUT UP OCT 24, 1956) WT. 36.2
368 ♂ (TESTES 2x6 mm) " " 189-75-30-17(N) WT. 42.7
369 ♀ (NO EMB'S) " " 191-79-30-18(N) COLL. VIC LEWIN WT. 42.3
370 ♂ (TESTES 2½x5 mm) MICROTUS 155-42-20-13(N) WT. 33.5 gm

A.C. ZIEGLER
1956

CATALOG

~~Oct 21~~ 6.2 mi. S, 3.1 mi. E Tomales Bluff, 50± ft., Marin Co., Calif.

Oct 21.

371	♂ (TESTES 00)	Sorex trowbridgei		116-51-14-8 (N)	wt. 6.1
372	♀ (NO EMBS.)	"	"	110-50-14½-7 (N)	wt. 6.1
373	♂ (TESTES 00)	"	"	120-54-14-8 (N)	wt. 5.7
374	♀ (NO EMB'S MAMMAE ENLARGED)	"	"	120-53-14-9 (N)	wt. 7.3
375	♂ (TESTES 00)	"	"	111-51-14-9 (N)	wt. 5.4
376	♂ (TESTES 00)	"	"	111-52-14-8½ (N)	wt. 5.8
377	♀ (NO EMB'S)	"	"	113-51-14-9 (N)	wt. 6.2
378	♀ (NO EMB'S)	"	"	118-55-14-9 (N)	wt. 6.4
379	♀ (NO EMB'S)	"	"	119-54-14-9 (N)	wt. 5.3
380	♂ (TESTES 2x3mm)	"	"	113-50-14-8½ (N)	wt. 6.1

1 mi. N, 0.2 mi. E Bridgehaven, 50± ft., Sonoma Co., Calif.

Oct. 21. CAPTIVE ANIMAL DIED OCT 27 WT (Oct. 27) 20.3

381 ♀ (NO EMB'S) Phenacomys longicaudus 177-76-20-12 (N)

2.5 mi. N Cathedral City, Riverside Co., California

CAPTURED MAY 1, 1954 DIED Oct. 29, 1956 ORIG. COLL. JERRY COOK CAPTIVE FROM JIM ANDERSON

HOWELL WAS ILLG.

382 ♂ (TESTES 4x8mm) Dipodomys deserti? 320 - 185 - 55-18 (N) WT 94.4 (TAIL TIP MISSING)

2 mi. W Baden Station, 500± ft., San Mateo Co., Calif.

Nov 4

383	♂ (TESTES 1x2mm)	Reithrodontomys megalotis		135-69-16-13 (N)	wt 7.6
~~384~~	~~♂ (TESTES 1x2mm)~~	~~"~~	~~"~~	~~133-66-17-13 (N)~~	~~wt 8.5~~
384	♂ (TESTES 1x2mm)	"	"	135-69-16-12½ (N)	wt. 7.5
385	♀ (NO EMB'S)	"	"	140-68-17-13 (N)	wt 7.8
386	♂ (TESTES 4x6mm)	Microtus californicus		163-50-20-14 (N)	wt. 46.3
387	♂ (TESTES 4x7mm)	"	"	173-52-19½-15 (N)	wt. 48.4
388	♀ (NO EMB'S)	Reithrodontomys megalotis		123-63-16-12 (N)	wt. 7.4
389	♀ (NO EMB'S)	"	"	130-69-17-12½ (N)	wt. 8.3
390	♂ (TESTES 1x2mm)	"	"	136-72-17-13 (N)	wt. 7.3
391	♂ (TESTES 1x2mm)	"	"	131-66-16½-12½ (N)	wt. 9.7
392	♂ (TESTES 1x2mm)	"	"	130-67-17-12 (N)	wt. 8.0

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2 MI. W BADEN STATION, 500± FT., SAN MATEO CO., CALIFORNIA

NOV. 4 (CONT.)

393	♂	(TESTES 1½×3 mm)	PEROMYSCUS MANICULATUS		157-69-21½-16(N)	WT. 18.0
394	♀	(NO EMB'S)	MICROTUS CALIFORNICUS		149-46-20-14(N)	WT. 34.5
395	♂	(TESTES 4×6 mm)	"	"	160-51-21-13(N)	WT. 37.6
396	♀	(4-25 mm EMB'S 3 RT., 1 LT.)	"	"	145-44-20-13(N)	WT. 43.5
397	♂	(TESTES 5×7 mm)	"	"	167-53-21-15(N)	WT. 43.8
398	♀	(RESORBING YOUNG ?)	"	"	166-50-20-13½(N)	WT. 36.3
399	♂	(TESTES 4½×7 mm)	"	"	168-52-22-14(N)	WT. 44.6

1.5 MI. S, 1 MI. W MILLBRAE, 400± FT., SAN MATEO CO., CALIFORNIA

NOV. 4

400	♀	(NO EMB'S)	PEROMYSCUS TRUEI		178-93-23-19(N)	WT. 17.4
401	♂	(TESTES 6×9 mm)	PEROMYSCUS CALIFORNICUS		225-118-26-23(N)	WT. 36.1
402	♂	(TESTES 4×6 mm)	"	"	249-138-27-23(N)	WT. 45.1
403	♀	(NO EMB'S)	"	"	245-134-28-22(N)	WT. 42.4
404	♀	(2 SCARS RT. SIDE)	"	"	239-124-25-23(N)	WT. 38.4
405	♀	(NO EMB'S)	MICROTUS CALIFORNICUS		150-47-21-14(N)	WT. 33.3
406	♂	(TESTES 2×4½ mm)	"	"	159-47-22-16(N)	WT. 30.9

IOWETH TENNI NOLVILLE

8 MI. S, 3 MI. E TOMALES BLUFF, 25± FT., MARIN CO., CALIFORNIA

NOV. 17

407	♂	(TESTES 1×2 mm)	SOREX VAGRANS		102-44-12-7(N)	WT. 4.0

NOV. 18

408	♀	(NO EMB'S)	SOREX TROWBRIDGEI		124-57-14-8(N)	WT. 6.0
409	♀	(NO EMB'S UTERUS ENLARGED)	"	"	109-49-14-8(N)	WT. 6.7
410	♂	(TESTES 1×2 mm)	"	"	119-53-14-9(N)	WT. 6.1
411	♀	(NO EMB'S)	"	"	121-54-14-9(N)	WT. 5.9
412	♂	(TESTES 1×2½ mm)	PEITHRODONTOMYS MEGALOTIS		125-65-17-14(N)	WT. 8.9
413	♀	(NO EMB'S)	"	"	128-68-17-14(N)	WT. 8.2
414	♀	(NO EMB'S)	"	"	150-77-18-14(N)	WT. 10.7
415	♂	(TESTES 1½×3 mm)	PEROMYSCUS MANICULATUS		170-81-22-18(N)	WT. 17.5
416	♀	(NO EMB'S)	"	"	157-73-21-16(N)	WT. 14.6
417	♂	(TESTES 1½×3 mm)	"	"	159-76-21-17(N)	WT. 14.2

HOWETH TENNI NOLVILLE

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GRIZZLY CREEK STATE PARK, COMPGROUND, T. 1 N., R. 2 E., HUMBOLDT CO., CALIF.

NOV 24

418	♀ (3 SCARS)	PEROMYSCUS	MANICULATUS	176 - 88 - 20 - 18 (N)	WT. 23.1
419	♂ (TESTES 5×9 mm)	"	"	173 - 82 - 21 - 16½ (N)	WT 21.3
420	♂ (TESTES 6×10 mm)	"	"	194 - 103 - 22½ - 18 (N)	WT. 24.2

~~CAMPGROUND ON~~ BOISE CREEK, CAMPGROUND, 800± FT., ~~2 MI. W WINDOW CREEK P.O.~~, S. 30; T. 7 N, R. 5 E, HUMBOLDT CO., CALIF.

NOV. 25

421	♀ (4-15 mm EMB'S)	PEROMYSCUS	MANICULATUS	171 - 75 - 21½ - 16 (N)	WT. 24.7
422	♂ (TESTES 5×9 mm)	"	"	182 - 89 - 21½ - 17 (N)	WT. 21.3
423	♂ (TESTES 6×9 mm)	"	"	184 - 86 - 22 - 17 (N)	WT. 22.4

¼ MI. E BLUE LAKE (HIWAY 299), 250± FT., HUMBOLDT CO., CALIFORNIA

PICK-UP NOV. 25 (SEEN D.O.R. NOV. 24)

424	SEX ?	PYGMY OWL	IRIS YELLOW, TOES GREENISH-YELLOW.	WT. 70.0

1 MI. S, 8 MI. E SHANDON (MCMILLAN RANCH), SAN LUIS OBISPO CO., CALIFORNIA

WEIGHED & PUT UP NOV. 26.

COLL. NOV. 24 COLLECTOR - JERRY COOK.

SKULL ONLY 425	♀ (NO EMB'S)	SOREX		BACK BROKEN 105 - 38 - 11 - 6 (N)	WT. 4.1 GM
426	♀ (NO EMB'S)	PEROGNATHUS	CALIFORNICUS ?	208 - 110 - 25 - 12 (N)	WT 24.6
427	♀ (NO EMB'S)	"		194 - 105 - 23 - 12 (N)	WT. 18.8
428	♀ (6 SCARS)	"	"	195 - 102 - 23 - 11½ (N)	WT. 22.7
429	♀ (NO EMB'S)	"	"	192 - 100 - 24 - 11 (N)	WT. 19.0
430	♂ (TESTES 2×4 mm)	"	"	TAIL TIP MISSING? 175 - 88 - 24 - 12 (N)	WT. 19.7

CORRAL HOLLOW, ALAMEDA CO., CALIFORNIA

COLL. OCT 28, 1956 KILLED DEC. 12, 1956 COLL. JIM ANDERSON

SKULL ONLY 431	♀ (PLACENTAL SCARS ABOUT TEN OF THEM?)	PEROGNATHUS	VARIANUS	133 - 65 - 18 - 8 (N)	WT. 12.1

2 MI. W TOMALES, 400± FT., T. 5 N, R. 10 W, MARIN CO., CALIFORNIA

DEC 22 (DAUGHT BETWEEN 5:00 PM & 8:00 PM)

C. HOWELL JR. UNIV. CALIF. LOS ANGELES	432 ♂ (TESTES 4×5½ mm)	SOREX	VARIANS ?	BACK BROKEN 106 - 39 - 12 - 8 (N)	NO WT.

DEC. 23

433	♀ (NO EMB'S)	REITHRODONTOMYS	MEGALOTIS	155 - 79 - 17 - 14 (N)	WT. 11.1
434	♀ (NO EMB'S)	MICROTUS	CALIFORNICUS	147 - 43 - 19 - 13 (N)	WT. 29.9

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2 MI. W. TOMALES, 400± FT., T.5N, R.10W, MARIN CO., CALIF.

DEC. 23 (CONT.)

435	♀ (3 FRESH SCARS)	MICROTUS	CALIFORNICUS	167 - 49 - 20 - 15 (N)	WT. 37.7
436	♂ (TESTES 2½ X 4 mm)	"	"	TAIL TIP MISSING? $\boxed{150}$ - $\boxed{45}$ - 20 - 13½ (W)	WT. 30.9
437	♀ (2 - 7 mm EMB'S)	"	"	153 - 44 - 20 - 14½ (W)	WT. 36.3
438	♀ (NO EMB'S)	"	"	166 - 46 - 20 - 15 (N)	WT. 43.8

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BELOW GRIZZLY PEAK NEAR BERKELEY, ALAMEDA CO., CALIF

JAN 29. LEFT THE BIKE AT "I" HOUSE AT 1:15 PM WALKED UP TO JUST BELOW BOTANICAL GARDENS WHERE I TOOK A WIDE PATH (FIRE LANE?) TO SOUTH-EAST OF CANYON ROAD. CLEAR & COOL BUT MUDDY STILL. FLUSHED A GREAT HORNED OWL ABOUT 200 YDS UP PATH. ALSO SAW SHARP SHINNED HAWK NEAR SAME PLACE.

SOME KIND OF LILY OR GRASS (WITH 4" BULB + ROOTS BENEATH) HAD BEEN EATEN OFF 1" ABOVE THE GROUND. MAYBE HAD BEEN EATEN OFF CLOSER & HAD GROWN OUT MORE. HEARD 2 OWLS (?) HOOTING ABOUT 2:00 PM WHOO-HOO-HOO. SLOWLY & RATHER SOFTLY — NOT MOURNING DOVES BUT MAYBE BAND-TAILED PIGEONS — I DON'T KNOW BUT STILL THINK OWLS. SAW A FLOCK OF PIGEONS FLYING OVER — DIDN'T SEEM LIKE ROCK DOVES AT ALL SO I FIGURED BAND-TAILED — A NEW ONE FOR ME IF THEY WERE.

MANY TUNNELS COULD BE SEEN ALONG PATH WHERE PARTS OF ROOF HAD DROPPED IN — SOME FRESH MOUNDS WITH "PLUG" IN OPENING LIKE GOPHER WORKINGS. 1 MOLE TUNNEL (RAISED) RUNNING ACROSS ROAD AT HEAD OF CANYON. 3 OR 4 OWL PELLETS (2-3" LONG) ON ROADSIDE, UNDER "WHITEWASH" ROOSTING TREE, HAD SOME 2-3" BONES + 1 ROOTLESS MOLARED MANDIBLE HALF.

DEER (?) TRACKS, ALSO POSSUMS ON MUDDY ROAD.

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(PAGE 2) BELOW GRIZZLY PEAK, NEAR BERKELEY, ALAMEDA CO., CALIF.

JAN 29 (CONT) GOT A RIDE DOWN FROM JUST ABOVE RADIATION LAB WITH CAR & HELPED OUT OF MUD & CAME UPON 2 DEER AT 5:30 P.M. WITH BLACK (DORSAL SIDE) TAILS. NO ANTLERS. (DEER 100 YDS ABOVE STADIUM)

OTHER BIRDS SEEN:

TURKEY VULTURE - 5 (TOGETHER CIRCLING)
COMM. QUAIL - 6
ROUGH-LEGGED HAWK - 1
? HUMMINGBIRD - 5
FLICKER - 2
HAIRY WOODPECKER (?) (CALLING) - 1
STELLER JAY - 1
SCRUB JAY - 2
CHICKADEE - 8
BUSHTIT (FLOCK) - 10
BEWICK (?) WREN - 1
ROBIN (FLOCKS SINGING) - 25
HERMIT THRUSH (?) - 2
BROWN TOWHEE - 2
JUNCO - 5
GOLD. CR. SPAR. - 2

1 UNIDENTIFIED VIREO (?) - OLIVE GRAY ABOVE, YELLOWISH BELOW, BLACKISH LINE FROM BILL TO (& MAYBE THRU) EYE, NO WING-BARS.

NO AMPHIBS (OR REPTILES) SEEN IN POOLS OR ON ROCKY ROAD SIDE.

UNIV. OF CALIF., BERKELEY, ALAMEDA CO., CALIF.

FEB 4 ELBERT BROCK, A GRAD STUDENT WORKING PART-TIME IN THE MUSEUM OF VERTEBRATE ZOOLOGY BROUGHT A SPIDER (TARANTULA) BACK FROM MEXICO ABOUT A MONTH AGO. ABOUT JAN 2 A SMALL LIZARD WAS PUT IN THE AQUARIUM

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(PAGE 2) UNIV. OF CALIF., BERKELEY, ALAMEDA CO., CALIF
FEB 4 (CONT.) WITH THE SPIDER & WAS FOUND PARTLY EATEN SEVERAL DAYS LATER ALTHO NOONE HAD SEEN THE SPIDER KILL & EAT IT. A FEW DAYS ~~WEEK OR SO~~ LATER BROCK GOT A ADULT WILD MUS TRAPPED IN LIFE SCIENCE BLDG. COURTYARD & PUT IT IN WITH THE SPIDER, WHICH WOULD "STRIKE" AT THE MOUSE IF THE LATTER BOTHERED IT TOO MUCH, BUT OTHERWISE THAT SEEMED TO SHOW LITTLE INTEREST IN THE MOUSE. BROCK TOOK THE MUS OUT AFTER A DAY OR TOO & KEPT IT IN A SEPARATE CAGE. A DAY ~~WEEK~~ & MEAL WORM ADULTS & LARVAE WERE NOT TAKEN BY THE SPIDER EITHER, ALTHO THE INSECTS WERE KEPT IN THE CAGE FOR 2 OR 3 WEEKS. WHILE BROCK WAS IN THE HOSPITAL WITH HISTOPLASMOSIS(?), I TRIED ANOTHER MUS (PUT ~~IN~~ THE ~~OF~~ AQUARIUM WITH FOOD & WATER) BUT HE ONLY SEEMED TO FRIGHTEN THE SPIDER WHICH OCCASIONALLY "STRUCK" AS BEFORE WITHOUT TOUCHING THE MOUSE. ON FEB 1, I REMOVED THE ADULT WILD MUS & PUT IN A JUST-WEANED WHITE LAB MUS SUPPLIED BY CHET _____ FROM ROOM 5093 LSB. THE MUS SHOWED NO FEAR OF THE SPIDER & WOULD OCCASIONALLY CRAWL ON THE LATTER'S BACK OR WORM HIS WAY UNDERNEATH HIM. THE SPIDER "STRUCK" TOWARDS THE MOUSE ONCE OR TWICE, BUT, AS BEFORE, TOOK LITTLE NOTICE OF THE MOUSE AS IT FED OR RAN

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(PROJ 3) UNIV. OF CALIF., BERKELEY, ALAMEDA CO., CALIF.

FEB 4 (CONT) ABOUT THE CASE YESTERDAY, HOWEVER, RETURNING AFTER AN HOURS ABSENCE ABOUT 2:00 PM. I NOTICED THE MOUSE BEING RATHER STRANGELY, CROUCHING + STARTING ONCE IN A WHILE. WHEN IT MOVED IT DID SO IN MORE OR LESS JERKS. THE SPIDER AT THIS TIME WAS QUITE CLOSE TO THE MOUSE, FACING IT WITHOUT MOVING EXCEPT FOR THE MOUTH "FEELERS" (A PAIR DIRECTED FORWARD) BEING TURNED BACK TOWARDS, AND STROKING, THE MOUTH (OR AT LEAST THAT REGION) AS I HAD NOTICED IT DOING THE DAY BEFORE, ALTHO AT THAT TIME IT STILL WAS PAYING NO ATTENTION TO THE MUS. AFTER HALF AN HOUR OR SO HOWEVER THE MOUSE SEEMED NORMAL AGAIN + MOVED AS USUAL AROUND THE AQUARIUM + FED AGAIN.

THIS MORNING ABOUT 11:00 AM I CAME TO WORK + FOUND THE SPIDER RAISED RATHER HIGH ON ALL PAIRS OF LEGS WITH THE DEAD BODY OF THE MOUSE, ALREADY SEEMINGLY HALF EATEN, HELD UP TO THE SPIDER'S MOUTH APPARENTLY BEING EATEN RATHER THAN JUST "SULKED" AT. THE TWO MOUTH(?) "FEELERS" WERE IN MOTION, MOVING TOWARDS THE MOUTH + BACK OUT AWAYS BUT DID NOT SEEM TO TOUCH THE MUS BIOL. TWO SHORTER, BUT EQUALLY THICK, MOUTH APPENDAGES WITH ¼ (OR MORE) INCH CLAWS (OR "FANGS"??) SEEMED TO BE USED TO HOLD THE BODY UP TO THE MOUTH AS IT

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(PAGE 4) UNIV. OF CALIF., BERKELEY, ALAMEDA CO., CALIF.
FEB 4 (CONT) WAS BEING EATEN. THE BODY WAS REVOLVED WITHOUT BEING DROPPED BY CHANGES OF POSITION OF THESE "CLAWS".

I COVERED THE TOP & 2 SIDES OF THE AQUARIUM WITH PAPER TO PREVENT ANY DISTURBANCE TO THE SPIDER AS I WORKED AT A TABLE BESIDE THE CAGE. THE SPIDER KEPT THIS FEEDING UP WITHOUT MOVING AROUND UNTIL ABOUT 5:00 PM. WHEN I SHONE A DESK LAMP INTO THE CAGE. AT THIS THE SPIDER SLOWLY MOVED BACKWARDS A FEW STEPS, TURNED TOWARDS THE LIGHT & CARRIED THE MUS BODY INTO THE CORNER NEAREST THE LIGHT WHERE I DROPPED THE CARCASE, EXCRETED A SHORT SET OF WHITE STUFF, & CRAWLED AGAINST THE GLASS SIDE SEEMINGLY TRYING TO GO TOWARDS THE LIGHT. I REMOVED THE LIGHT & THE PROTECTING PAPER FROM THE CAGE BUT THE SPIDER DID NOT GO BACK TO THE MUS BUT ALTERNATELY WANDERED AROUND OR STOOD STILL.

ABOUT 9:30 PM. I POURED WATER THRU THE SCREEN TOP OF THE CAGE INTO A WATCH GLASS ON THE FLOOR OF THE AQUARIUM. THE SPIDER WHICH HAPPENED TO BE NEXT TO THE WATCH GLASS (WHICH HAD REMAINED EMPTY FOR A DAY) IMMEDIATELY LOWERED ITS HEAD TOWARDS THE WATER AND REMAINED LIKE THAT FOR FULLY 5 MINUTES APPARENTLY DRINKING WHILE I STOOD NEARBY & WATCHED. THE SPIDER THEN RAISED ITS BODY ABOVE & RESUMED ITS

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(PAGE 5) UNIV. OF CALIF., BERKELEY, ALAMEDA CO., CALIF.,
FEB 4 (CONT) TRAVELING + STOPPING AROUND THE AQUARIUM. I HAD NOT SEEN IT SHOW ANY INTEREST BEFORE IN THE WATER-FILLED WATCH GLASS THAT HAD BEEN IN THE CAGE SINCE I PUT THE LAB. MUS IN, BUT I HAD BEEN THERE ONLY IN THE AFTERNOONS FOR THE PREVIOUS 3 OR 4 DAYS.

WHEN I LEFT AT 10:00 AM THE SPIDER WAS FACING THE MUS BODY WITH THE LONGER MOUTH "FEELERS" RESTING ON THE MOUSE'S REMAINS. THE HEAD, FEET TO THE FIRST JOINT, TAIL AND PART OF THE SKIN, FUR + BONE(?) OF THE MUS WERE LEFT, BUT THE VISCERA, BELLY WALL, RIBS REST OF FUR, ETC. ALL MUST HAVE BEEN EATEN. THE SPIDERS FEEDING WAS SILENT — HOW HE MANAGED THE BONES, I DON'T KNOW.

THE DESCRIPTION OF THE SPIDER IS AS FOLLOWS: ROUGHLY 4 INCHES LONG + 3 INCHES WIDE (I.E. LEGS, NOT BODY) WHEN STANDING NORMALLY (NOT STRETCHED OUT) THORAX - FADED DUSTY ORANGE, ABDOMEN - BLACKISH WITH EVENLY SCATTERED ORANGE HAIRS BUT WITH A LIGHT TAN "[redacted]" SPOT COVERING MOST OF TOP CENTER OF ABDOMEN. HEAD (OR WHAT THERE IS OF IT) BLACKISH. LEGS FROM BODY TO JUST BEYOND 1ST JOINT COVERED WITH THICK BLACK HAIR, FROM THIS POINT DISTALLY ORANGE HAIRED WITH "FOOT" REGION BLACKISH ROUGH. LONG MOUTH FEELERS ORANGISH HAIRED. "FANGS" OR CLAWS (KEPT FOLDED BACK AGAINST THE "FEELERS") ON BOTH PAIRS OF "FEELERS" SHINY BROWNISH BLACK. ANAL APPENDAGES ($\frac{1}{4}$" LONG) BLACK HAIRED,

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~~FEB 5~~ BERKELEY HILLS NEAR U.C. BOTANICAL GARDENS,
NEAR BERKELEY, ALAMEDA CO., CALIF.

FEB. 5 LEFT BIKE AT "I" HOUSE AT 1:00 PM. AND WALKED UP CANYON ROAD (THE SHORT DEADEND STREET WITH 6 OR 7 HOUSES ON IT) FOUND GROUP OF 3 TRILLIUM (? PURPLE FLOWERS) BLOOMING ON SHADY SLOPE NEAR HOUSES. ALSO NEOTOMA NESTS THERE. WEATHER CLEAR, WARM & SLIGHTLY WINDY. FOLLOWED STREAM UPHILL A SHORT WAYS AND SAW, IN A FLOCK OF BUSHTITS, 2 PLAIN TITS & A HUTTONS VIREO. SONG SPARROW SINGING.

TOOK THE SAME FIRE LANE ROAD AS ON ~~FEB~~ JAN 29, 1956. THEN CLIMBED UP INTO EVERGREEN WOODS. NO BIRDS HERE SO I TRIED THE MORE OPEN SLOPES AND FOUND 2 NEOTOMA NESTS IN TREES. TORE INTO ONE OF THESE 8 FT. UP IN A TREE & FOUND INNER CAVITY ABOUT 4" IN DIAMETER & 6" LONG. FLOOR OF IT WAS 6" DEEP IN OLD PELLETS. ENTRANCE WAS ON SIDE LEADING OUT ONTO A LIMB WHERE I FOUND FAIRLY FRESH, BUT NOT NEWLY DROPPED, FECAL PELLETS. OUTSIDE DIMENSIONS OF NEST ABOUT 2'x2'x2'. ALSO SAW 10 OR 12 GROUND NESTS ONE WITH FRESHLY CUT PLANT MATERIAL ("GOATS BEARD") NEAR ENTRANCE.

FURTHER UP HILLSIDE (ABOUT ¼ MI. SE OF BOTANICAL GARDENS) I FOUND OWL PELLETS in

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(PAGE 2) BERKELEY HILLS NEAR U.C. BOTANICAL GARDENS NEAR BERKELEY, ALAMEDA CO., CALIF.

FEB 5 (CONT) WITH RODENT BONES & SKULLS (BROKEN ~~B~~ WITH MORE OR LESS UNROOTED MOLARS) MAYBE NEOTOMA?

TURNED OVER BOARDS & OLD LOGS IN EVERGREEN GROVE (NOT PINES) AND FOUND 10 OR SO "SLENDER SALAMANDERS". MOST OF THEM UNDER LOGS SEEMED TO BE BETWEEN BARK AND WOOD RATHER THAN BETWEEN BARK AND GROUND.

CROSSING RAVINE TO BOTANICAL GARDENS I FOUND A RABBIT SKELETON UNDER A BUSH ON DRY HILLSIDE BUT, AS SKULL WAS FALLING APART, DID NOT COLLECT IT. IN CLUMP OF PINES JUST OUTSIDE ~~AT~~ EAST CORNER OF BOTANICAL GARDENS FENCE I GOT A GOOD LOOK AT A WILLIAMSON'S SAPSUCKER. DR. MILLER'S LIST OF BIRDS OF BERK. HILLS 1949 DID NOT LIST IT, SO I SPENT 20 MINUTES OR SO LOOKING AT IT WITH 10X GLASSES FROM BACK, SIDE & FROM ABOVE BY CLIMBING UP THE VERY STEEP SLOPE. THE UNDERSIDE DID NOT SHOW UP YELLOW AS IN PETERSONS GUIDE BUT THEN I COULD NOT SEE MUCH OF BELLY AS THE BIRD WORKED UP THE TREES. NO CALL EITHER. I KNOW THE YELLOW BELLIED SAPSUCKER FROM BACK EAST AND THIS DEFINITELY WAS NOT ~~A~~ THAT SPECIES. ALTHO LATER IN THE SAME GROVE I DID SEE

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(PAGE 3) BERKELEY HILLS NEAR U.C. BOTANICAL GARDENS, NEAR BERKELEY, ALAMEDA CO., CALIF.
FEB 5 (CONT) A ♂ YELLOW-BELLIED SAPSUCKER
(= RED-NAPED SAPSUCKER).

FOUND DEER TRACKS BUT SAW NONE. LOTS OF PEOPLE OUT HIKING TODAY. HEARD OWL (?) HOOTING AGAIN OFF & ON ALL AFTERNOON (WHOO-HOO-HOO-HOO) SLOW & RATHER SOFT BUT FAR-CARRYING. WALKED BACK DOWN NORTH CANYON ROAD ABOUT 6:15 AT DUSK. NO BROWN TOWHEES SEEN!

BIRDS SEEN OR HEARD:
(SHARP-SHINNED HAWK ??-1)
RED-TAILED HAWK - 2
HORNED OWL (?) - 1
HUMMING-BIRD (ANNA?) - 3
FLICKER - 3
YELLOW-BELLIED S'SUCKER - 1 ♂
(NEW) WILLIAMSON'S S'SUCKER - 1 ♂
STELLER JAY - 1
SCRUB JAY - 2
C'B. CHICKADEE - 8
PLAIN TITMOUSE 2
BUSH TIT (FLOCK) - 10±
WREN-TIT - 6
BEWICK WREN - 1
ROBIN - 15
VARIED THRUSH - 2
(NEW) HUTTON VIREO - 1
SPOTTED TOWHEE - 1 ♂
ORE. JUNCO - 3
SONG SPARROW - 2
FLOCK (10±) ROCK DOVES FLYING OVER

P.S.: ONE OWL PELLET (COULD IT HAVE BEEN FOX SCAT?) HAD SNAKE BELLY PLATES OR SCALES IN IT.

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(0081) BERKELEY HILLS NEAR U.C. BOTANICAL GARDENS NEAR BERKELEY, ALAMEDA CO, CALIF.

FEB 6 DROVE UP TO U.C. BOTANICAL GARDENS WITH JAY SCHNELL (A GRAD. STUDENT IN ORNITHOLOGY WORKING PART TIME IN MAMMALS IN MVZ) TO TRY TO COLLECT THE WILLIAMSONS SAPSUCKER. JAY HAD A 4:10 GUN & WAS SHOOTING #12 SHELLS. WHEN WE GOT TO SAME WOODS AS DESCRIBED YESTERDAY WE SAW THE BIRD WITHIN A FEW MINUTES & AFTER WE BOTH IDENTIFIED IT AGAIN, JAY SHOT (AT) IT OVERHEAD, BUT APPARENTLY GOT ONLY A FEATHER OR TWO SINCE ~~THE~~ BIRD WAS SEEN OVER THE GARDENS (THRU THE PINES) FLYING A LITTLE ERRATICALLY. BEFORE WE LOST SIGHT OF IT, ~~AGAIN~~ WE WENT INTO THE GARDENS & SEARCHED THE GROUNDS BUT WE FOUND NO SIGN OF IT. I DID SEE A RED-BREASTED SAPSUCKER ON POPLARS(?) IN BOTANICAL GARDENS. (HEAD + THROAT ALL RED EXCEPT FOR SOME KIND OF DARK MARK RUNNING BACK THRU THE EYE.) AGAIN. THIS WAS ABOUT 3:15 P.M. AGAIN BETWEEN WE SEARCHED THE ~~THE~~ PINES AGAIN TIL ABOUT 5:00 P.M. WE SAW NO SIGN OF THE WILLIAMSONS SAPSUCKER AGAIN.

BIRDS SEEN OR HEARD:

SHARP-SHINNED HAWK (IDENTIFIED BY SCHNELL) - 2(4)
RED-TAIL HAWK - 3
HORNED OWL (CALLING - IDENT. BY SCHNELL) - 2
FLICKER - 3
RED BREASTED S' SUCKER - 1 ♂
WILLIAMSON S' SUCKER - 1 ♂
STELLERS JAY - 1
C'B. CHICKADEE - 4

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(PAGE 2) BERKELEY, NILES NEAR U.C. BOTANICAL GARDENS, NEAR BERKELEY, ALAMEDA CO., CALIF.

FEB 6 (CONT) ROCK WREN - 2
CREEPER - 1 (+1?)
WRENTIT - 3 (CALLING IDENT. BY SCHNELL)
ROBIN - 20+
VARIED THRUSH - 3
HERMIT THRUSH - 1
RUBY CR'D KINGLET - 2
PINE SISKIN - 1
? TOWHEE - 1 (CHEWING HIMS)
BROWN " - 1

FEB 11. WILD CAT CANYON, CONTRA COSTA CO., CALIFORNIA.

8:25 AM - 11:15 AM. CLEAR, COOL, SLIGHT WIND. TOOK ROADS (FIREROADS) FROM TENNIS COURTS TO TOWER LAKE. FROST ON GROUND THIS A.M. ROUTE THRU FIELDS & PINES FIRST, THEN THRU EUCALYPTUS WOODS TO TOWER LAKE. FRINGILLIDS COMMON IN FIELDS & PINES, LESS SO IN EUCALYPTUS. IN VALLEY BETWEEN TWO EUCALYPTUS HILLSIDES A RIPARIAN ASSOCIATION WAS WORKED. (STREAM BED, "PUSSY WILLOWS", OCCASIONAL LIVE OAKS & BRECHARIS HIGHER UP ON SLOPE ABOVE STREAM.) BIRDS SEEMED SCARCE IN OPEN & LOOSE EUCAL. WOODS BUT IN "PATCHES" OF BRECHARIS, GRASS & WEED CLUMPS IN THESE WOODS, BIRDS SEEMED TO BE FAIRLY COMMON. NO DRY, OPEN HILLSIDES WITH SCRUB GROWTH WERE WORKED. SPOTTED TOWHEE, QUAIL, SONG SPARROW WERE SEEN IN STREAM GULLY, IN EUCALYPTUS, OPEN ABOVE, WITH DEAD WEEDS, POISON OAK, "PUSSY WILLOWS".

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[redacted]

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FEB. 11 - (CONT) WILDCAT CANYON, CONTRA COSTA CO., CALIF.
(PAGE 2) SMALL LIVE OAKS & CUT BRUSH. HAD A QUICK LOOK AT TWO HAWKS (ACCIPITERS?) MAYBE COOPERS. FLOCKS OF LARGE WHITE BIRDS SEEN FLYING OVER - SOME IN "V'S" - THOUGHT MAYBE GEESE BUT WATER SAW ANOTHER FLOCK OF SAME BIRDS JOIN OTHERS (ALTOGETHER 100±) CIRCLING ABOVE - PRETTY SURE WAS AWAY AT TOWER LAKE A QUICK LOOK GAVE CANVASBACKS, COOT & RUDDY DUCK. COOT & RUDDY DIVING. CANVASBACK'S (?) QUACKING REGULAR BARNYARD VARIETY OF "QUACK."

BIRDS: RUDDY - 1
CANVASBACKS - 2 ♂ + ♀
COOPER HAWK - 2(?)
RED TAILED HAWK - 2
CALIF. QUAIL (COVEY) - 15±
GULL(?) - 100+
MOURNING DOVE - 1 (ALSO 2 CALLING)
(ANNA?) HUMMINGBIRD - 2
RED SHAFTED FLICKER - 5
STELLER'S JAY - 6
SCRUB JAY - 2
CHES.-BK CHICKADEE - 3
BUSH TIT - 15 (MOSTLY 1 FLOCK)
WREN TIT - 6
ROBIN - 2
VARIED THRUSH - 1
RUBY CROWNED KINGLET - 1
AUDUBON WARBLER - 3
ARKANSAS GOLDFINCH - 15± (2 FLOCKS & SINGLE)
SPOTTED TOWHEE - 1
BROWN TOWHEE - 10
OREGON JUNCO - 10
SONG SPARROW - 5 (+2 SINGING) 5

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FEB 11. (CONT) WILDCAT CANYON, CONTRA COSTA CO., CALIF.

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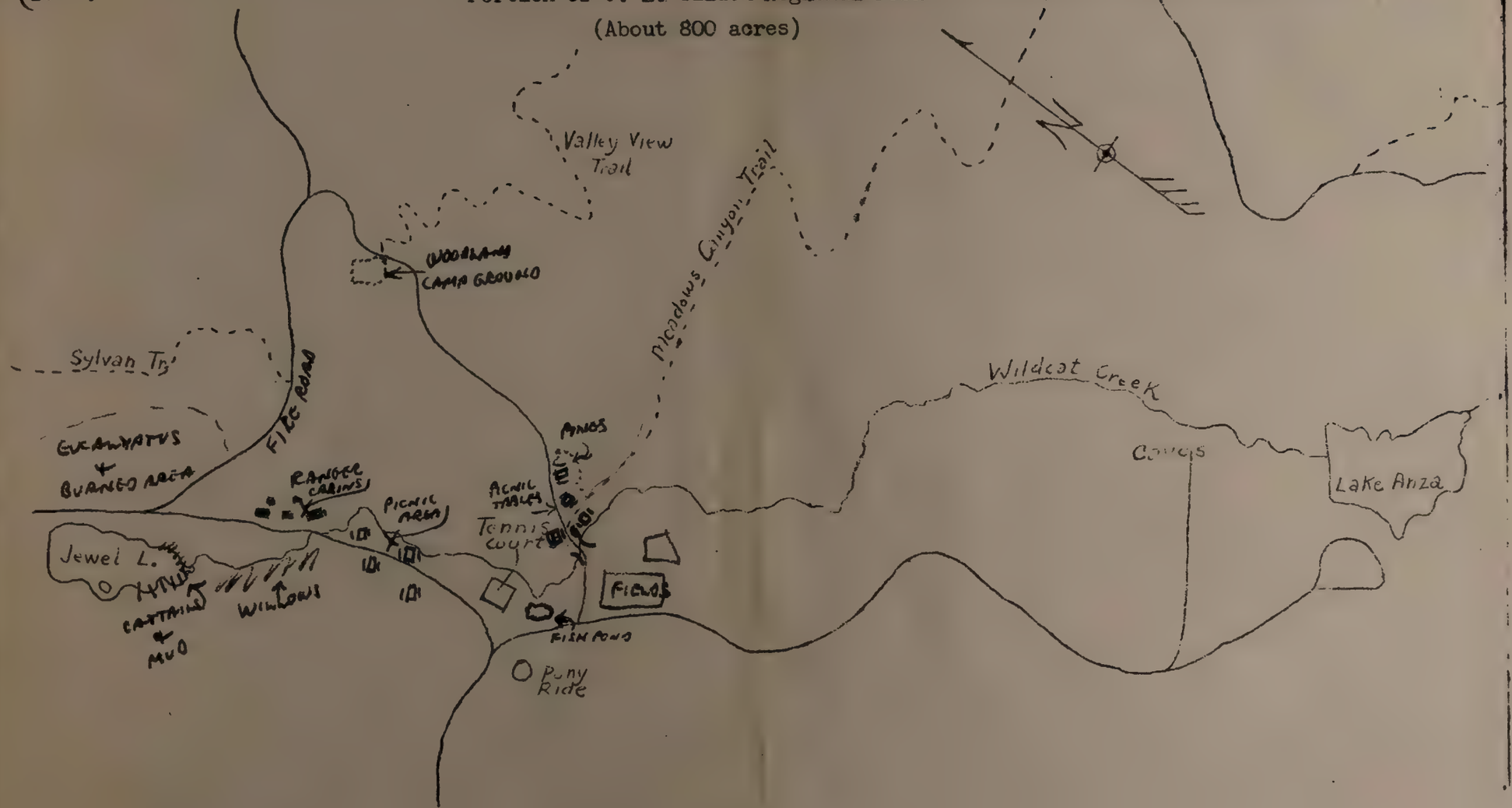
FEB 11. (CONT) WILDCAT CANYON, CONTRA COSTA CO, CALIF.

Portion of C. L. Tilden Regional Park
(About 800 acres)



Roads ———
Trails - - - - -

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FEB 13 U.C. BOTANICAL GARDENS NEAR BERKELEY, ALAMEDA CO., CALIF.

WALKED UP TO GARDENS FROM HASTE STREET WITH JOHN LAWRENCE. GOT THERE ABOUT 9:15 A.M. WEATHER MOSTLY CLEAR, COOL. NO WIND. WORKED THE GARDENS TIL ABOUT 1:15 THEN WALKED PAST POULTRY HUSBANDRY BLDG TO "I" HOUSE THEN HOME. BIRDS SEEMED VERY ACTIVE & NOTICEABLE IN THE GARDENS ESPECIALLY SPARROWS & TOWHEES. IN CHICKEN MANURE HEAPS PILED IN GARDENS THE BIRDS SEEMED TO CONGREGATE — HERMIT THRUSHES; WHITE CR'D, WHITE THROATED (ONLY 1), SONG AND FOX SPARROWS; JUNCOS & BROWN & SPOTTED TOWHEES WERE SEEN FEEDING. OPEN GROUND SET OFF BY SMALL HEDGES WAS BEING WORKED BY MANY FRINGILLIDS & THRUSHES. TURNED OVER ROCKS, BOARDS & STONES FOR HERPS BUT ONLY FEW SLENDER SALAMANDERS SEEN. NO HUMMERS SEEN BUT ONE HERRD (PERHAPS). FOX SQUIRREL (SCIURUS NIGER) & DOMESTIC CAT (!) ONLY MAMMALS SEEN BUT SOUGRAM HOLES & RUNWAYS IN GRASS FOUND BESIDE BARNYARDS IN SE PART OF GARDENS.

BIRDS: RED TAILED HAWK - 2
(ON ROAD) ? SPARROW " - 1
CALIF QUAIL - 2
ANNA HUM'BRD - 1(?)
P'SH. FLICKER - 2
YELLOW BELLIED SAPSUCKER 1 (+1?)
STELLER JAY - 10
SCRUB " - 5
C'B CHICKADEE - 10
PLAIN TITMOUSE - 2

BUSH TIT - 20
R'BR. NUTHATCH - 1 "TEMPLING"
WREN-TIT - 10
CALIF. THRASHER - 1
ROBIN - 15
VARIED THRUSH - 9
HERMIT THRUSH - 6
RUBY CR'D KINGLET - 5
MYRTLE WARBLER - 2
ENGLISH SPARROW - 10 (IN TOWN)

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FEB 13 (CONT) U.C. BOTANICAL GARDEN, NEAR BERKELEY, ALAMEDA CO., CALIF.
(PAGE 2)

HOUSE FINCH - 15 (IN TOWN)
PINE SISKIN - 75 1 (BIG FLOCK + SINGLES)
SPOTTED TOWHEE - 8 (AT LEAST - SEEMED VERY COMMON)
BROWN TOWHEE - 6 (+ 6 IN TOWN)
OREGON JUNCO - 10
WHITE CROWNED SPARROW - 4 (+ 4 IN TOWN)
WHITE THROATED SPARROW - 1 (GOOD LOOK AT IT)
GOLDEN CROWNED SPARROW - 6+
FOX SPARROW - 4 (OR MORE)
SONG SPARROW - 9

~~PAGE STRAWBERRY CANYON, ALAMEDA CO., CALIF.~~
~~LEFT FROM N. END OF STADIUM AT 8:10 AM. WEATHER OVERCAST & COOL. SOME WIND. RAIN BEGINNING ABOUT 9:30 AM. WALKED WITH DR. MINKERS GROUP CIRCLING GREEK THEATER & ENDING UP BEHIND N. END OF STADIUM AGAIN. COVER WAS EUCALYPTUS, ORNAMENTAL SHRUBS, BRUSH~~

OBER
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FEB 16 UNIV. CALIF., BERKELEY, ALAMEDA CO., CALIF.
WARD RUSSELL, PREPARATOR FOR MVZ,
TOLD ME TODAY SOME GIRL (~~[illegible]~~) HAD
BROUGHT IN A DEAD WILLIAMSON'S SAPSUCKER
FROM VICINITY OF BOTANICAL GARDENS. WARD
SAID THE BIRD HAD ONE PELLET OF SHOT IN
ITS SIDE & HAD BEEN DEAD PROBABLY A
FEW DAYS. I FIGURE THIS MUST HAVE BEEN
THE ONE DISCUSSED IN NOTES FOR FEB 5TH
& 6TH OF THIS YEAR. GLAD MVZ DOES
HAVE THE RECORD NOW & GLAD GLADDER
TO KNOW IT WAS A WILLIAMSON'S. THIS
INFO. IS SCANTY BUT, ITS ALL I GOT
FROM WARD JUST TALKING TO HIM.
PROBABLY HE HAS MORE COMPLETE DATA
IN HIS NOTES AS HE PUT ON THE SKIN.

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FEB 18 LAKE MERRITT, OAKLAND, ALAMEDA CO., CALIF

ZOO 113 GROUP TRIP 8:30 AM — 11:45 AM.
WEATHER, COOL, CLEAR VERY SLIGHT WIND,
WORKED EDGE OF LAKE MERRITT FOR WATER
BIRDS MOSTLY. LAKE IS IN CENTER OF
OAKLAND WITH LAWN + TREES BETWEEN
IT + STREETS WITH HOUSES + BUSINESSES.
BIRDS ARE PROTECTED HERE + FED BY
VISITORS. WATER IS BRACKISH FROM
INTERMITTENT (?) CONNECTION WITH SAN
FRANCISCO BAY. MYTILUS EDULIS + SPECIES OF BARNACLE SEEN ALONG
MARGIN. MALLARDS SEEMED BY FAR THE MOST
COMMON DUCK WITH BALDPATES + CANVASBACKS OR REDHEADS. VERY POOR 2ND + 3RD RANK.
COOTS WERE NEARLY AS NUMEROUS AS MALLARDS.
BIRDS SHOWED LITTLE FEAR OF PEOPLE AT LAKE
MARGIN; MALLARDS, COOT + SOME BALDPATES
EVEN SWIMMING IN FOR "HANDOUTS". THE
"KILLY-KILLY-ETC" CALL OF CASPED SPARROW
HAWK AT LAKE DID NOT SEEM TO BOTHER
BIRDS AT ALL. ONE CASPED RAVEN (OR WAS
IT CROW?) REPEATED PHRASE LIKE "O-BOY!"
FIRST TIME I HAD HEARD A CORVID "TALK".
MANY DUCKS + GEESE HERE SAID TO BE
SEMI-DOMESTIC OR DOMESTIC + PERHAPS
(MALLARDS) CROSSED WITH DOMESTIC VARIETIES.

BIRDS:

EARED GREBE	— 8±	PINTAIL	— 3
PIED-BILLED "	— 1	CANVASBACK	— 25±
WHITE PELICAN	— 3	LESSER SCAUP	— 10±
BROWN PELICAN	— 2	COMMON GOLDENEYE	— 2 (+ 1 ♀ ?)
CANADA GOOSE (?) (MAYBE DOMESTIC)	— 8	BUFFLEHEAD	— 6
WHITE FRONTED GOOSE	— 2	RUDDY DUCK	— 25±
MALLARD	— 200±	KILLDEER	— 1 (CALLING)
BALDPATE	— 35±	BREWER BLACKBIRDS	— 30±
		ENG. SPARROW	— 15±

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FOR U.C. BOTANICAL GARDENS, NEAR BERKELEY, ALAMEDA CO., CALIF.

DROVE TO GARDENS WITH JOHN LAWRENCE, SPENCE THORPE, BILL LESLIE & REED, AT 3:00 PM. SO ONLY GOT ABOUT 3/4 HOUR LOOKING IN GARDENS AT BIRDS. CLEAR, COOL, SLIGHT WIND. GOT USUAL BIRDS THERE — NOT TOO MUCH ACTIVITY THAT TIME OF DAY. WHEN GARDENS CLOSED AT 4:00 PM, LOOKED AROUND "YUCCA" PATCH IN FRONT OF GATES AND ALONG FENCE BORDERING NORTH OF GARDENS BUT VERY FEW BIRDS SEEN THERE. GOT REED TO IDENTIFY SOME PLANTS THAT HAD BEEN WORRYING US — SAGE, CONIUM, ALDER, ACACIA, SCRUB(?) OAK, ETC. ALSO SHOWED HIM TRILLIUM BLOOMING ACROSS ROAD FROM ~~ANIMA~~ POULTRY HUSBANDRY BLDG. AS WE WERE DRIVING HOME ~~CAME BACK~~ AT 5:00 P.M.

BIRDS: SHARP-SHINNED HAWK(?) - 1
RED TAILED " - 2
YELLOW-BELLIED SAPSUCKER - 1
HAIRY WOODPECKER - 1♀ ("PEEK!" NOT SO SHARP AS THAT OF OURS BACK EAST IN TOWN.)
STELLER JAY - 3
SCRUB JAY - 2
CH. BK'D CHICKADEE - 1 (CALLING)
WREN TIT - 3
ROBIN - 5 (NO FLOCKS)
VARIED THRUSH - 4
HERMIT THRUSH - 4
RUBY-CROWNED KINGLET - 5 (3 OF THEM TOGETHER)
CEDAR WAXWING - 10 (FLOCK, N BERKELEY)
BROWN TOWHEE - 1
OREGON JUNCO - 5
WHITE CR'D SPARROW - 2
GOLDEN CR'D SPARROW - 5
FOX SPARROW - 1
SONG SPARROW - 2

FEBRUARY 1956

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FEB 5 STRAWBERRY CANYON, ORANGE CO., CALIF.

LEFT FROM N. END OF STADIUM AT 8:10 AM. WEATHER OVERCAST & COOL SOME WIND. RAIN BEGINNING ABOUT 9:30 AM. WANDERS WITH DR. MILLER'S GROUP CIRCLING GREEK THEATER & EWOING UP BEHIND N. END OF STADIUM AGAIN. COVER WAS MOSTLY EUCALYPTUS, ORNAMENTAL SHRUBS, ~~BACHARIS~~ & IVY-OAK. AFTER RAIN STARTED GROUP STOOD UNDER TREES & WATCHED ACTIVITY OF FRINGILLIDS. FEEDING IN THE MODERATE RAIN. BROWN TOWHEES, GOLDEN CR'D SPARROWS, 1 FOX SPARROW & 1 SPOTTED TOWHEE WERE FEEDING NEAR A COW BEN SEEMINGLY UNMINDFUL OF THE RAIN BUT NOT CALLING. WATCHED THE SPOTTED TOWHEE KICKING UP LEAVES LIKE THE FOX SPARROW. THE BIRDS DIDN'T STAY TOO CLOSE TO EACH OTHER MAYBE 4-5 FT. APART. EXCEPT FOR GOLDEN-CR'N'D SPARR.'S WHO WERE FEEDING TOGETHER. 1 ANNA(?) HUMMINGBIRD(♂?) SEEN PERCHED 15' UPON DEAD EUCALYPTUS BRANCH DURING RAIN. IT FLEW OFF ONCE OUT OF SIGHT BUT RETURNED TO SAME SPOT AFTER LESS THAN A MINUTE. THIS AREA SEMS TO BE PARTLY TRANSITION LIFE ZONE.

BIRDS: SPARROW HAWK - 1
RED-TAILED " - 1
MOURNING DOVE 1 (CALLING)
ANNA HUMMINGBIRD - 1 (♂?)
RED SHAFTED FLICKER - 3
STELLER'S JAY - 3
CHES. BK'D CHICKADEE - 2+
PLAIN TITMOUSE - 1 (CALLING)
WREN-TIT - 1 (CALLING)
ROBIN - 5 (EATING TOYON BERRIES)
AUDUBON WARBLER - 2
SPOTTED TOWHEE - 3
BROWN TOWHEE - 6
GOLD. CR'D SPARROW - 5
FOX SPARROW - 2

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FEB 26 U.C. BOTANICAL GARDENS, NEAR BERKELEY, ALAMEDA CO., CALIFORNIA

HIKED UP AT 10:30AM. CLEAR, FAIRLY WARM, SLIGHT WIND. 4 OF RED-TAILED HAWKS SEEN WERE CARRYING ON SOME SORT OF DISPLAY (MATING?). ONE OF THE TWO IN EACH PAIR FLYING BEHIND THE OTHER OF THEM, BOTH ~~SOME~~ WITH LEGS & FEET HELD STRAIGHT DOWN STIFFLY AND OCCASIONALLY SWOOPING DOWN ON THE OTHER. AT GARDENS BIRDS WERE STILL THICK AROUND THE CHICKEN MANURE PILES BUT NOTICEABLY LACKING WERE WHITE-CROWNED SPARROWS — NONE SEEN OR HEARD. SAW WHAT LOOKED LIKE ♀ OR IMM. PURPLE FINCH (EITHER CALIF. OR CASSINS, I DON'T KNOW WHICH) FEEDING ON LARGE BERRIES ON GROUND. FAIRLY OLIVE-BROWN ABOVE (NOT JUST BROWN) ESPECIALLY ON RUMP. VERY QUIET RETING BIRD. NO CALLS OR SONG. STELLER JAYS SEEMED VERY MUCH IN EVIDENCE AS WERE SPOTTED TOWHEES & BROWN TOWHEES WERE HARD TO FIND. HEARD A SONG I DIDN'T KNOW FROM BAECHARIS THICKET IN NE PART OF GARDENS. "SEE CHIRRRRRR" (— ~~~~), REPEATED SEVERAL TIMES MAYBE 20 OR 30 SECONDS APART. CLEAR FIRST NOTE & CHIRR ON ABOUT SAME PITCH. RAN DOWN THE HUTTON VIREOS CALL "ZU-WEEP" (IT SOMETIMES RUNS TOGETHER AS ZWEEP). ALSO GOT GOOD LOOKS AT THE BIRD NEAR THE POULTRY HUSBANDRY BUILDING. I THINK I'VE CALLED SOME HUTTONS VIREOS RUBY-CR'S KNOCKERS BEFORE BUT THINK I'VE GOT THEM STRAIGHT NOW. AT 11:15 AM HEARD STELLERS(?) JAYS "SKYING"

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FEB 26 (CONT) U.C. BOTANICAL GARDENS, NEAR BERKELEY, ALAMEDA CO., CALIF.

IN SOME REDWOODS ON CANYON ROAD JUST BELOW ENTRANCE TO GARDENS. INVESTIGATED & FOUND GR. HORNED OWL 20' UP IN REDWOOD LOOKING DOWN AT ME. SAW A SMALL BIRD (RUBY CRN. KINGLET?) HOPPING 6' IN FRONT OF OWL. OWL STAYED MORE THE 5 MIN'S I WATCHED HIM & DID NOTHING EXCEPT KEEP ME IN SIGHT BY CRANING HIS NECK. TURNED OVER BOARDS & ROCKS BUT GOT NOTHING EXCEPT CENTIPEDES, BEETLES & LONGER SALAMANDERS. GOT HOME ABOUT 4:00 PM.

BIRDS SEEN OR HEARD:

SHARP SHINNED HAWK	- 1	HUTTON VIREO	- 5
RED-TAILED "	- 6 (3 PAIR AT ONCE!)	AUDUBON WARBLER(?)	- 3
SPARROW "	- 1 (HOVERING)	PURPLE FINCH(?)	- 1 (SEE NOTES)
CALIF. QUAIL	- 4		
HORNED OWL	- 1	PINE SISKINS	- 30 (1 FLOCK)
ANNA HUM'BIRD	- 2		
RED SHAFTED FLICKER	- 3	SPOTTED TOWHEE	- 10
YELL. BELLIED SAPSUCK	- 1 (+1?)	BROWN TOWHEE	- 5
HAIRY WOODPECKER	- 1 (CALLING)	OREGON JUNCO	- 20
STELLER'S JAY	- 8+	GOLDEN CR'D SPARROW	- 10
SCRUB JAY	- 3	FOX SPARROW	- 5
CH-BK'D CHICKADEE	- 2+	SONG "	- 15+
PLAIN TITMOUSE	- 5+		
BUSH TIT	- 25 (2 FLOCKS)		
RED-BR. NUTHATCH	- 1		
WREN-TIT	- 6		
BEWICK WREN	- 1		
CALIF THRASHER	- 1 (JUST SONG)		
ROBIN	- 5		
VARIED THRUSH	- 6		
HERMIT THRUSH	- 10 (!)		
RUBY CR'D KINGLET	- 2		

SAW 3 GOLDEN-CROWNED SPARROWS (1 ADULT, 2 IMM'S) EATING YOUNG LEAVES ON SOME SORT OF BUSH. SAME ACTIONS AS ON FEB 13 1956 (SEE SPECIAL RECORD) BUT LARGER LEAVES WERE BEING EATEN TODAY.

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MAR 3 WILDCAT CANYON, CONTRA COSTA CO., CALIF

LEFT TENNIS COURTS AT TILDEN PARK AT 8:15 AM. AND WORKED DOWN TO JEWEL LAKE, THEN NE ALONG FIRE ROAD TO WOODLAND CAMPGROUND + VICINITY, THEN AROUND FIRE ROAD AGAIN ENDING UP AT TENNIS COURTS AGAIN AT 11:45 AM. INTERMITTENT LIGHT RAIN, MOSTLY OVERCAST, SLIGHT WIND AT TIMES + FAIRLY WARM. FOUND SEVERAL TARICHA IN SMALL STREAMS AND CRAWLING THRU 6" HIGH GRASS IN CAMPGROUND + ON HILLSIDES. AT LEAST ONE OF THEM HAD LIGHT ORANGE COMING UP TO BOTTOM OF EYE ALTHO MOST HAD BROWN AREA EXTENDING BELOW EYES. BIRDS SEEMED QUIET + RELATIVELY SCARCE ALTHO SOME FLOCKS OF BUSH-TITS, CHICKADEES + RUBY CR'D KINGLETS MIXED WERE SEEN. NO WHITE CR'D SPARROWS. 1 OWL PELLET FOUND AT _____ PICNIC SPOT — CONTAINED SKULL OF MICROTUS (?) + OTHER SMALL RODENT BONES. SEVERAL BATRACHOSERS FOUND UNDER LOGS + BOARDS. DEFENSE EX. OF TARICHA OBSERVED WHEN HIT ON BACK — BODY FLATTENED, HEAD + TAIL ARCHED OVER BODY. NO TARICHA IN AMPLEXUS. "TAME" DEER SEEN.

BIRDS: PIED-B'D GREBE - 1
MALLARD - 5
MALLARD X MUSCOVY (?) - 1
DEL PITER (COOPERS?) - 1
RED-TAILED HAWK - 1
MOURNING DOVE - 2 (1 CALLING)
HORNED OWL (?) - 1 (CALLING ONCE)

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MAR 3 (CONT) WILDCAT CANYON, CONTRA COSTA CO., CALIF.

ANNA'S HUM'BIRD – 1 (+3 ?)
RED. SH'D FLICKER – 2
DOWNY W'PECKER – 3 (!)
(BLACK PHOEBE SEEN BY DR MINNOR)
STELLER'S JAY – 6+
C'B. CHICKADEE – 7
BUSH-TIT – 15+ (2 SMALL FLOCKS)
R.B' NUTHATCH – 2
WREN-TIT – 3 (CALLING)
BEWICK WREN – 1
ROBIN – 5
VARIED THRUSH – 3
RUBY-CR'D KINGLET – 4
HUTTON VIREO – 1 (CALLING ONLY)
AUDUBON'S WARBLER – 4
(REDWINGED BLACKBIRDS SEEN BY JOHN LAWRENCE AT 7:15 AM)
SPOTTED TOWHEE – 3 OR 4
BROWN TOWHEE – 8 AT LEAST.
OREGON JUNCO – 13
GOLDEN CR'D SPARROW – 6
SONG SPARROW – 8 TO 12 (SEEN OR HEARD)

MAR 4 MOUNTAINVIEW CEMETERY, OAKLAND, ALAMEDA CO., CALIF.

GOT TO CEM. ABOUT 7:30 AM WITH MIKE & JOHN LAWRENCE AND REED PIERCE. CLEAR MOST OF TIME, SLIGHTLY WARM & LITTLE WIND. WORKED THE 3 CEMETERIES THAT SIT RIGHT NEXT TO EACH OTHER 'TIL 12:00 NOON. MOSTLY LAWNS, WITH ALOT OF EUCALYPTUS AND SMALL AMOUNT OF OTHER TREES & 2 OR 3 SMALL LAKES – NOTHING ON LAKES. REED POINTED OUT BRODIEA, LUPINE, SOAP PLANT, ROSEMARY & MILK THISTLE AMOUNG OTHER NEW ONES FOR ME. PICKED SAGE, ROSEMARY & DILL (OR SOMETHING LIKE IT) FOR

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MAR 4 (CONT.) MOUNTAIN VIEW CEMETERY, OAKLAND, ALAMEDA CO., CALIF.

USE AT HOME AS SPICES. REED ALSO CAUGHT A 6-8" GARTER SNAKE (THAMNOPHIS). WE TURNED OVER LOGS, BOARDS, CANS & ROCKS ESPECIALLY BROKEN SIDEWALK CONCRETE SLABS & FOUND MAYBE 25 BATRACHOSEPS ATTENUATUS, 4 ANEIDES LUGUBRIS, 1 YOUNG TRITURUS TOROSUS, 1 MEDIUM-SIZED SCELOPORUS OCCIDENTALIS AND 2 SCORPIONS ABOUT AN INCH LONG. NO HERPS WERE SEEN IN OPEN EXCEPT THE THAMNOPHIS ALTHO WE ALL LOOKED PRETTY CAREFULLY. THE SNAKE HAD EYES COVERED WITH A BLUE FILM. REED CONJECTURED (OR SAID HE WAS GOING TO VERIFY THEM) NEARLY ALL THE HERP'S FOUND. FOUND 8-10 SKULLS, EACH WITH BRAINCASE BROKEN OFF, AND OTHER ASSORTED RODENT BONES UNDER TREES NEAR DRY QUARRY. SKULLS SEEMED TO BE GOPHER, APPARENTLY FROM (OWL?) PELLETS SINCE ONE ALMOST DISINTEGRATED FUR & BONE PELLET WAS FOUND THERE.

BIRDS: (NO STELLER'S!)

RED TAILED HAWK - 1	BUSH TIT - 2
SPARROW " - 1	WREN-TIT - 1 (CALLING)
COM. QUAIL - 1 (CALLING)	ROBIN - 50+
(+ VERBAL OF FLOCK OF 50!! X? NEARBY)	AUDUBON WARB. - 10+
KILLDEER - 2	(BREWER'S B'BIRD - 5 AMONG 2500 COWBIRDS)
MOURNING DOVE - 15	
ANNA HUM'BIRD - 4	HOUSE FINCH - 10
ALLEN " - 6	PINE SISKIN - 25+ (1 FLOCK & MANY OTHER SMALL GROUPS)
RED SH'D FLICKER - 3	
DOWNY W'PECKER - 1 (HEARD)	SPOTTED TOWHEE - 2
BLACK PHOEBE - 1	BROWN TOWHEE - 8
SCRUB JAY - 3	OREGON JUNCO - 15+
CH'B CHICKADEE - 4	WHITE-CR'D SPARROW - 5
	GOLDEN-CRD " = 8
	SONG SPARROW = 7

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MAR 10 WILDCAT CANYON, CONTRA COSTA CO., CALIF

LEFT TENNIS COURTS AT 8:15 AM. & WALKED WILDCAT CREEK, PICNIC AREA & DOWN TO & AROUND NATURE TRAIL & JOWEL LAKE. THEN THRU WOODS SE TO LONE OAK PICNIC AREA. LOGS & BOARDS TURNED & CREEK INVESTIGATED. WEATHER CLEAR, WARM (BUT COOLISH IN SHADE BERS), NO WIND. QUITE A FEW BIRDS OUT - MANY CALLING. CAME BACK AT 12:10 P.M. ANOTHER ZOO 113 GROUP FOUND RING-NECK SNAKE ABOUT 6-7 INCHES LONG - ORANGE YELLOW BENEATH EXCEPT UNDER TIP OF TAIL WHERE COLORED MORE REDDISH. YELLOW, THIN COLLAR GREENISH BROWN ABOVE. ANOTHER GROUP FOUND 2 YOUNG ENSATINA APPARENTLY UNDER SMALL LOGS OR LITTER UNDER TREES. (BLACKPHOEBES AT BRIDGE OVER JOWEL LAKE)

BIRDS:

MALLARD - 8
RED TAILED HAWK - 3 (STOOGE)
CALIF QUAIL - 1+ (CALLING)
MOURNING DOVE - 1 (CALLING)
? HUMMING BIRD - 3
FLICKER - 3
DOWNY W.P. 1 (CALLING)
HAIRY WOODPECKER - 1 (CALLING)
BLACK PHOEBE - 2
STELLER'S JAY - 4
C. B. CHICKADEE - 2
WREN TIT - 2 (CALLING)
ROBIN - 2
HUTTON VIREO - 2 (SEEN + CALLING ZUWEEP!)
OREGO JUNCO - 4
SONG SPARROW - 3

AMPHIBS.

TARICHA TORUSA - 10+
BATRACHOSEPS ATTENUATUS - 10+
ANEIDES LUGUBRIS - 2
HYLA REGILLA - 2
(ENSATINA - 2)

REPTILES

THAMNOPHIS ELEGANS - 1
RING-NECKED SNAKE - 1
(DIADOPHIS AMABILIS)

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MAY 11 LEONA HEIGHTS PARK, OAKLAND, ALAMEDA CO., CALIF

TOOK A SHORT TRIP UP TO PARK ABOUT 3:30 P.M. STAYED 'TIL 6:00 PM. CLEAR, WARM & WINDY. WENT WITH JOHN + MIKE LAWRENCE. PARK HAS STREAM 3-4 FT WIDE + 2-3 IN. DEEP COMING DOWN STEEP GULLY BORDERED WITH REDWOOD + CALIF. BAY + FULL OF ROCKS + BOULDERS IN STREAM BED. UP STREAM A ½ MILE OR SO IS WHAT I THINK IS CALLED PORTUGESE FLAT. A SHORT GRASSY MEADOW WITH A FEW ROCKS + A SMALL SEEP ON ONE SIDE OF HILLS SURROUNDING 3 SIDES OF "VALLEY". DOWN IN THE STREAM BED ~~CANOPY~~ IS 95% OR SO. WE DUG DOWN IN LEAFMOLD (REDWOOD) AT BASE OF STUMP OR ROCK + FOUND AN ENSATINA IN A HOLLOW UNDER THE WOOD. DEFENSIVE RX - SWINGING TAIL + BODY HIGH ON LEGS + WHITISH SECRETION ON TOP OF TAIL. TURNED OVER ~~[illegible]~~ MORE LOGS + DUG THRU MORE LEAFMOLD BUT GOT ~~[illegible]~~ NOTHING ELSE IN STREAM BED. TURNED OVER ROCKS IN "FLAT" + FOUND A SMALL ENSATINA, 3 OR 4 BATRACHOSEPS PACIFICUS + 1 ANEIDES LUGUBRIS. ALSO A OREN BIG (1½ IN) JERUSALEM CRICKET + A ¾" SCORPION. JOHN COLLECTED BOTH ENSATINAS. HEARD A FROG CHANTING IN SEEPAGE + GOT A LOOK AT ~~ONE~~ FROG - HYLA (?), MIKE FOUND TADPOLES BUT DIDN'T COLLECT THEM. BIRDS:

RED-TAILED HAWK - 2
MOURNING DOVE (?) 1 (JUST PART OF HOOT HEARD)
VIOLET GREEN SWALLOW - 6+ (FIRST SEEN THIS YEAR)

C. ZIEBER
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MAR 11 (CONT) LEONA HEIGHTS PARK, OAKLAND, ALAMEDA CO., CALIF.

SCRUB JAY – 1 (NOT IN PARK)
WREN TIT – 2 (CALLING)
ROBIN – 30 (MANY FLOCKING) 2 IN PORTUGESE FLAT
SONG SPARROWS – 3
ONE RABBIT SEEN IN UNDERBRUSH BESIDE ROAD – RAN INTO POISON OAK & STOPPED 15' FROM ROAD BUT ONE COULD SEE ONLY BROWNISH COLOR ON BACK. VEGETATION AROUND "FLAT" WAS BRECHARIS, SAME SOME CALIF. BAY, POISON OAK & LIVE OAKS ALSO SOME WHITE MUSTARD (BLOOMING) ALONG ~~SOME~~ PATHS AS WELL AS SOAP PLANT. ROADS ARE CLOSED TO TRAFFIC BUT HAVE MANY HORSERIDERS ON THEM APPARENTLY.

MAR 22 903 GILL COURT, ALBANY, ALAMEDA CO., CALIF.

VIC LEWIN BROUGHT IN 2 STELLER JAYS TO NIGHT WHICH I PUT UP. VIC ~~APPARENTLY~~ CAUGHT THEM TODAY IN CHICKEN-MESH TRAPS SET IN STRAWBERRY CANYON ~~NEAR~~ FIRE ROAD ON NE SLOPE OF CANYON. TRAPS WERE USED TO TRAP QUAIL WHICH VIC IS STUDYING. OTHER BIRDS CAUGHT IN TRAPS ONE DAY I WENT WITH VIC WERE, BESIDES 5 STELLER JAYS, 1 SPOTTED TOWHEE 2 CALIF QUAIL + 1 FOX SPARROW. LOCATION IS ½ MI. W GRIZZLY PEAK ACCORDING TO VIC. SKINS OF JAYS VERY FIRMLY ATTACHED TO BODY – REALLY HAD TO PULL TO GET THEM OFF.

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MAR 24 STRAWBERRY CANYON, U.C. CAMPUS OAKLAND, ALAMEDA CO. CALIF.

SET 25 MUS SPECIMENS ON BRUSHY SHADED HILLSIDE SET ABOUT 30-40' APART CAUGHT 3 PEROMYSCUS CALIFORNICUS, 1 P. TRUEI, & 1 FOX SPARROW. 4 MEADOW GOPHER TRAPS ON BOTTOM SAME HILLSIDE NEAR STREAM GOT 1 GOPHER. MEADOWS SET IN 2'S PAIRS, 20 FT APART. 4 MUS. SPEC. SET AMONG ½ OPEN NEAR ON SLOPE WITH POISON OAK & BRECHARIS - ALSO 2 SCHUYLER TRAPS SET AT WOODRATS NEST NOT SPRUNG. NOTHING IN MUSSETRAPS EITHER 1 SCHUYLER BAITED WITH SARDINE & OATMEAL HAD BAIT GONE.

ABOUT 20 TRAPS SET IN MICROTUS RUNWAYS ON S-FACING SLOPE. WITH 6 TO 8' HIGH GRASS. CAUGHT 3 REITHRODONTOMYS. 15 MUS. SPEC'S SET IN ARTEMESIA ON STEEP DRY S-FACING SLOPE HAD 1 PERO. MANICULATUS 1 WREN-TIT & 1 GOLDEN-CROWNED SPARROW. WE WERE TRAPPING FOR PEROGNATHUS HERE. 2 MORE TRAPS SET IN SMALL HOLLOW BETWEEN PINE GROVE & BRECHARIS SLOPE WERE NOT SPRUNG, ABOUT 30 TRAPS ON SAME BRECHARIS SLOPE AND ON DRY, ROCKY S-FACING SLOPE WITH CLUMPS OF SAGE GAVE ONLY A P. TRUEI AND SEVERAL BIRDS. WEATHER - CLEAR & WARM. DR BENSON CAUGHT A GARTER(?) SNAKE ON GRASS SLOPE. TOTAL MAMMALS

E. ZIEGLER
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MAR 24 (CONT.) STRAWBERRY CANYON, U.C. CAMPUS, OAKLAND, ALAMEDA CO., CALIF.

CAUGHT: 1 SPILOGALE PUTORIUS, 2 TAMIAS, 3 RETIOTHRASONYCHOMYS, 3 PEROMYSCUS CALIFORNICUS, 3 P. TRUEI, 1 P. MANICULATUS, ALSO IN TRAPS (MOSTLY TRAPS BAITED WITH BIRDSEED & ROLLED OATS) 2 WREN-TITS, 2 SPOTTED & 2 BROWN TOWHEES, 2 GOLDENCROWNED SPARROWS, 1 SONG & 1 FOX SPARROW. I KEPT SOME OF THE MAMMALS & SEVERAL OF THE BIRDS TO PUT UP. THE SNAKE WENT TO HERP LAB, & ELBERT BROOK TOOK MOST OF REST OF BIRDS & MAM'S FOR A HIGH-SCHOOL TEACHER FRIEND. AREA WORKED WAS SLOPES ABOVE AND TO THE N & E OF U.C. BOTANICAL GARDENS. OUT FROM 8:15 AM TO 12:15 PM.

MAR 25 POINT ISABEL, CONTRA COSTA CO., CALIF.

SET OUT 50 MUS. SPEC'S LAST NIGHT AT 6:00 PM. IN SALICORNIA MARSH ON NW SIDE OF POINT, JUST BAYWARD FROM THE SKEET RANGE OF THE HUNTING CLUB THERE. 5 TRAPS SET IN PATCH OF SAND GAVE NOTHING 2-SPRUNG-TWO. SAND IS AT SW END OF AREA TRAPPED. OTHER 45 TRAPS SET IN 6-10 INCH HIGH SALICORNIA (SOME IN MICROTUS RUNS ON SLIGHTLY ELEVATED (ABOUT 1-2 FT ABOVE SALICORNIA) KNOLLS WHICH SHOWED ACTIVE MICROTUS(?) BURROWS & RUNWAYS. THESE ONES ON KNOLLS I'LL CALL "HIGH" TRAPS + ONES ON MUDDY GROUND UNDER SALICORNIA

BEGLER
1956

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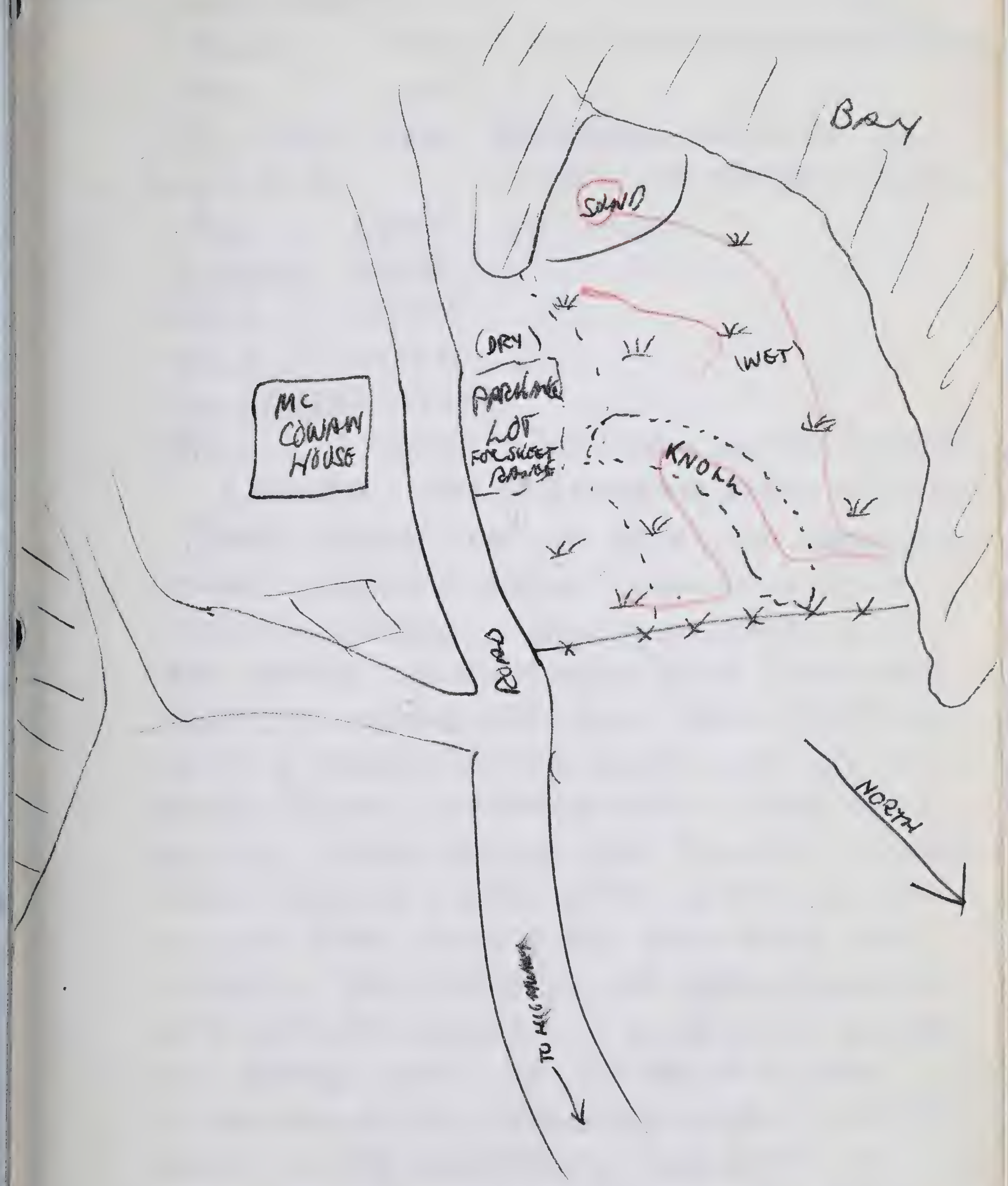
MAR. 25 POINT ISABEL, CONTRA COSTA CO., CALIF



TRAPPING LOCATION FOR MAR. 25
(50-TRAP LINE IN RED)

J. ZIEGLER
1956

JOURNAL

MAR 25 (CONT.) POINT ISABEL, CONTRA COSTA CO., CALIF.

"LOW" TRAPS.

MUS LOW 40' FROM WATEREDGE OF SALICORNIA
MUS LOW "
MICROTUS LOW BADLY EATEN SKULL SAVED - 20' FROM WATEREDGE OF SALIC
TAIL 50, HF. 20,
MUS LOW 30' FROM " " " "
MICROTUS HIGH
MUS HIGH
MUS HIGH
MICROTUS HIGH
MUS ?? LOW 75' FROM WATER EDGE OF SALIC (SAVED - WHITE BENEATH, REDDISH HAIR ABOVE)

MANY TRAPS SET IN RUNS IN SALICORNIA THAT SHOWED RODENT TRACKS IN MUD WERE SPRUNG - BLOOD ON ONE BUT NO HAIR OR ANYTHING ELSE - MAYBE RATTUS HEADING FOR BAY MARGIN. 2 OR 3 TRAPS WERE WET BUT I THINK JUST FROM SURFACE MOISTURE FOR, ALTHO GROUND ON BAY SIDE OF KNOLL (SEE SKETCH) WAS VERY SOGGY I DON'T THINK THE HIGH TIDE REACHED THE TRAPS. ON BORDER OF SALICORNIA AT WATER EDGE IS A 15 FOOT BAND OF SOME SORT OF GRASS OR SEDGE 8 INCHES HIGH GROWING IN MUD RIGHT DOWN INTO WATER - TOO SOFT TO SET TRAPS HERE. THE 10 TRAPS SET IN SALICORNIA BETWEEN POND & MARSH WERE ON FAIRLY DRY GROUND & IN MOST PLACES THE SALIC IS ONLY 2-3 INCHES HIGH & SPARSE. TRAPS WERE SET BESIDE LOGS OR IN HIGHER CLUMPS OF SALIC. THO.

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MAR 25 POINT ISABEL, CONTRA COSTA CO., CALIF.
SALICORNIA MARSH AT SKEET RANGE IS ABOUT 300' WIDE (FROM ROAD TO BAY EDGE) AND PERHAPS 500' OR MORE LONG. FRESH GOPHER WORKINGS SEEN IN SANDY GROUND W OF PARKING LOT. ALSO HARD GROUND OF PARKING LOT HAD OLD GOPHER HOLES & MOUNDS.

MAR 29 SET OUT 50 MUS. SPEC'S LAST NIGHT AT DUSK. TRAPS SET ABOUT 20-30 FT. APART EXCEPT ON A COUPLE OF KNOLLS WITH MICROTUS (?) BURROWS WHERE TRAPS WERE 5-10 FT. APART. TRAPPING LOCATION WAS PART OF SALICORNIA MARSH JUST NE OF MAR. 25TH TRAPPING — MOSTLY 8-10 IN. HIGH SALICORNIA WITH A FEW SHRUBS ON HIGHER (1-2 FT ABOVE REST OF MARSH) GROUND. WEATHER PARTLY CLOUDY & WARM. CAUGHT 5 MUS (4 OF THEM IN THE SALICORNIA NOT ON KNOLLS) & 3 MICROTUS (ALL ON KNOLLS). DID NOT HAVE A BUNCH OF TRAPS SPRUNG AS ON MAR 25TH MAYBE BECAUSE I DID NOT TRAP IN THE RAT (?) TRAILS LEADING TO WATERS EDGE. 8 OR 7 TRAPS WET & MOVED AROUND BY HIGH TIDE DURING NIGHT.

MAR 30 SET OUT 50 MUS. SPEC'S AFTER DARK LAST NIGHT ALONG FILL-IN ROAD ABOUT 3-4 FT. ABOVE SALICORNIA MARSH (WHERE I TRAPPED YESTERDAY). PART OF TRAP LINE BORDERED DIRECTLY ON BEACH TWO. WEATHER CLEAR, WARM.

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MAR 30 (CONT)

POINT ISABEL, CONTRA COSTA CO., CALIF.

TRAPS SET SINGLY ON BOTH SIDES OF ROAD UNDER BACCHARIS (?) BUSHES 3 FT HIGH. GROUND WAS BARE ON ROAD BUT HAD GREEN GRASS 2-3 IN. HIGH AMONG THE BUSHES. CAUGHT 3 MUS WHICH I DISCARDED & 1 SONG SPARROW WHICH I PUT UP. FOUND SEVERAL HOLES IN BANKS OF DITCH ALONGSIDE ROAD WITH FEATHERS AND/OR BONES OF SOME SORT OF DUCKS & SHORE BIRDS IN THE ENTRANCES. HOLES WERE 2-3 IN IN DIAMETER. ONE HOLE IN SAMICORNIA-COVERED BANK NEAR ROAD HAD RABBIT-SIZED PELLETS (SLIGHTLY ELONGATED) IN A RUN LEADING INTO IT. REMAINS OF 2 DUCKS SEEN ALONG SHORE. THERE WAS A ROW OF DRIFT WOOD ALONG BOTH SIDES OF ROAD ALONG MOST OF TRAP LINE.

APR 7

BAY FARM ISLAND, ALAMEDA CO., CALIF.

LEFT FROM GOLF COURSE PARKING LOT AT N.W. CORNER OF ISLAND AT 9:15 AM. JUST WORKED THE BAY BORDER & GRASSY FIELDS BESIDE IT. TIDE WAS HIGH WHEN WE ARRIVED BUT WAS GOING OUT AS WE WATCHED. BY 11:45 AM WHEN WE LEFT, THE SHORE OF MUD & ROCKS WAS EXPOSED FOR ABOUT 25 FT OR SO OUT FROM HIGH TIDE MARK. FOUND

C. ZIEGLER
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APR 7 (CONT) BAY FARM ISLAND, ALAMEDA CO., CALIF.
4 NESTS, KILLDEER, HORNED LARK, MEADOW-LARK & CLAPPER RAIL. MOST OF BAY SHORE WORKED WAS ONLY 100 FT OR SO FROM WELL-TRAVELLED ROADS LEADING OUT ONTO ISLAND. SALICORNIA MARSH MOSTLY ON DRY GROUND BUT SOME GROWING IN QUITE MUDDY GROUND. WEATHER CLEAR, WARM WITH MODERATE WEST WIND, A FEW MICROTUS RUNWAYS SEEN UNDER BOARD & IN SALICORNIA IN SMALL MARSH. BIRDS SEEN

WESTERN GREBE - 5
BROWN PELICAN - 1
D. C. CORMORANT - 25
GR. BLUE HERON - 2
AM. EGRET - 3
LESSER SCAUP DUCK - 10+
COOT - 3
SEMIPALMATED PLOVER - 1 (SEEN BY JIM ANDERSON) T.B.
KILLDEER - 3 (1 NEST)
— CURLEW - 10
WILLET - 15
RED-BACKED S'PIPER - 5+
SHORT BILLED DOWITCHER - 30+
(WESTERN ?) S'PIPER - 50+
MARBLED GODWIT - 3
(AVOCET - 1 NEAR EMERYVILLE)
WESTERN GULL - 2
FORSTERS TERN - 12 (ABOUT ½ IMM.)
CASPIAN TERN - 10
MOURNING DOVE - 1 (BY JIM ANDERSON)
W. MEADOWLARK - 2 (1 NEST.
HORNED LARK - 3 (1 NEST)

C. ZIEGLER
1956

JOURNAL

APR. 7 (CONT) POINT ISABEL, CONTRA COSTA CO., CALIF.
6:15 PM CHECKED ALL SURFACE RUNS I COULD FIND ON NE SIDE OF ROAD LEADING INTO SALICORNIA MARSH. AT ONE SPOT ABOUT 8 FT ABOVE WATER I FOUND RUNS WITH FRESH DROPPINGS ABOUT THIS SIZE ⬭ & SAW MOVEMENT IN GRASS BUT NOT THE ANIMAL — AT 6:30 WHILE WRITING THIS A TRAP WAS SPRUNG (MUS. SPEC) BUT ANIMAL APPARENTLY PULLED LOOSE & RAN THRU SALICORNIA 12-15 INCHES HIGH TO ANOTHER BURROW. GROUND CRACKED MORE DOWN TO 1' AND MANY RUNS & BURROWS ARE PRESENT. FOUND FRESH GRASS STALKS & SMALL DROPPINGS IN FRONT OF HOLE UNDER ROCK ON BANK ON BARE GROUND. SCAT TOO SMALL & THIN FOR MICROTUS. HOLE 2" IN DIA. SET TRAP HERE. ALSO SET TRAPS ON SW SIDE OF ROAD IN SOME TYPE OF SALICORNIA & CRACKED EARTH WHERE I FOUND QUITE A SYSTEM OF RUNWAYS.

APR. 8 RAN TRAPS THIS AM AT 7:45. GOT 5 (? JUST 4) MICROTUS & 2 MUS. (TRAPS ON NE SIDE OF ROAD 1 MICROTUS, 1 MUS — REST OF MAMMALS ON SW SIDE OF ROAD). LIFTED A FLAT, WIDE PLANK & FOUND A SYSTEM OF RUNWAYS UNDER IT. ALSO A PILE OF CUT DEAD PIECES OF GRASS SPREAD OUT ON SURFACE IN A CIRCLE 8 OR 9 INCHES ACROSS AND TAPERING DOWN UNDERNEATH

C. ZIEGLER
1956

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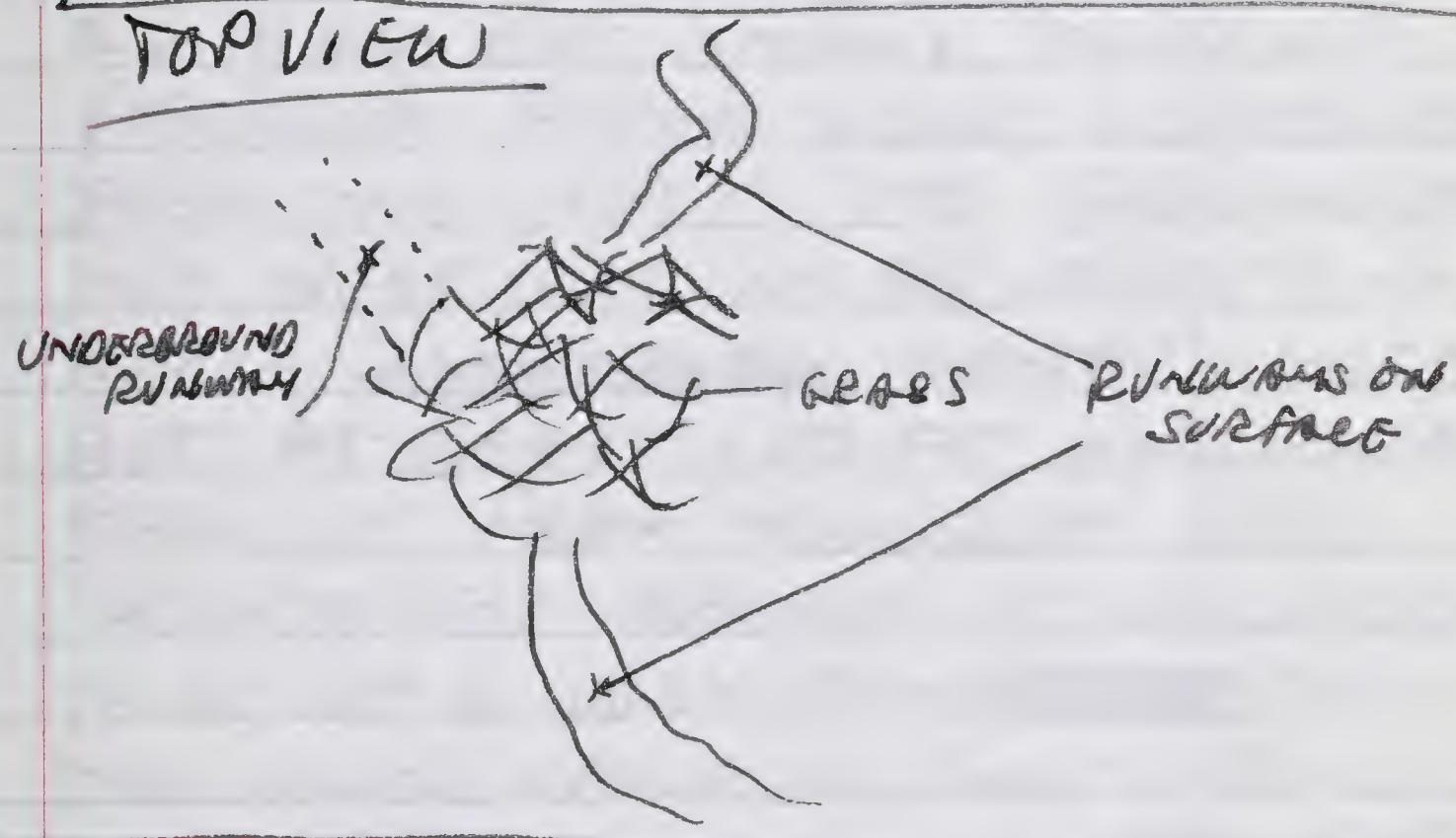
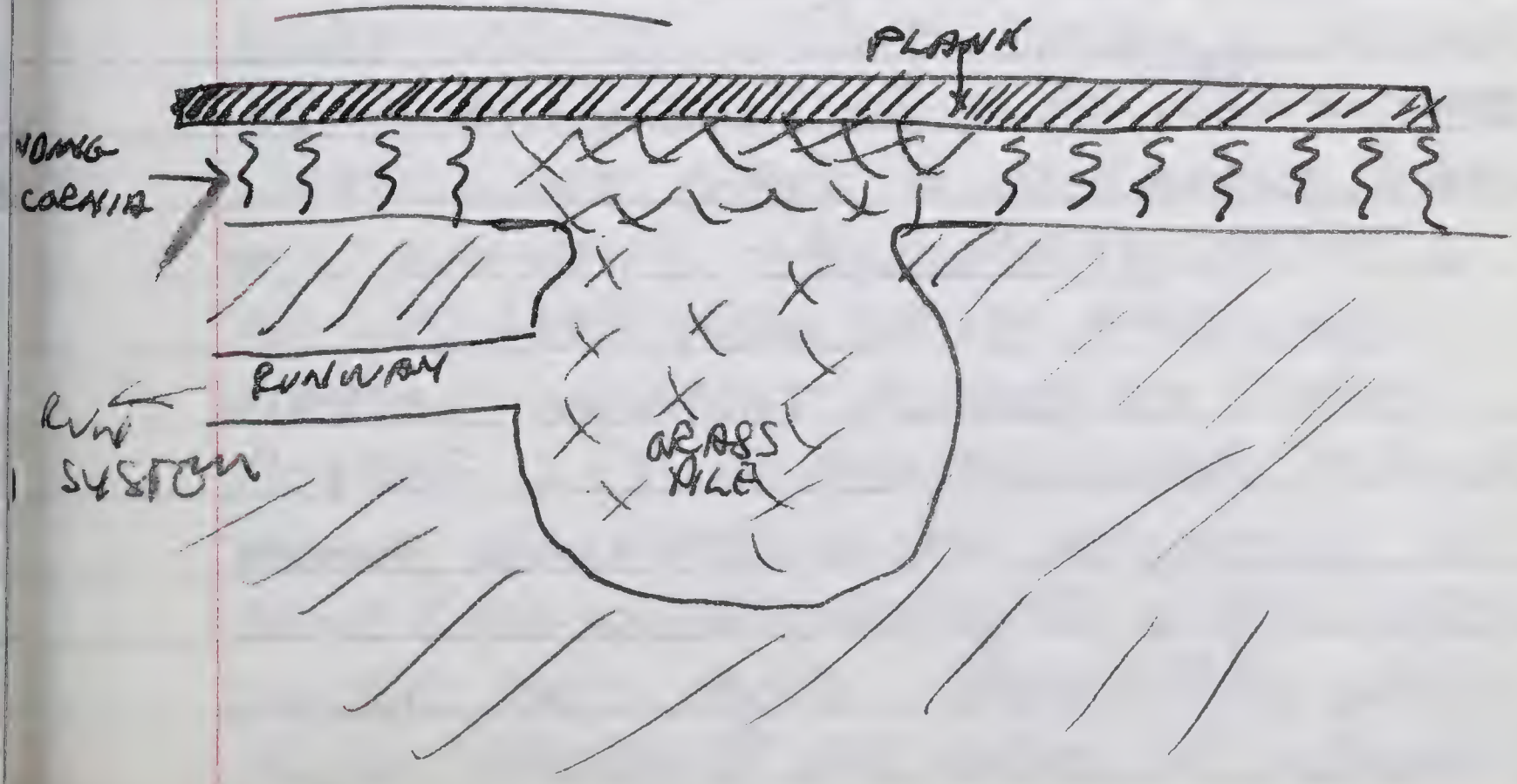
APR 28 (CONT) POINT ISABEL, CONTRA COSTA CO., CALIF.

TO A DEPRESSION 5 INCHES ACROSS X 3 INCHES DEEP. WITH A HOLE AN INCH & A QUARTER IN DIA. LEADING OUT OF THE SIDE OF IT. NO CAVITY NOTICED IN THE CENTER ALTHO IT LOOKED LIKE AN OLD PILE OF GRASS THAT MIGHT HAVE JUST FALLEN IN IF IT WAS ONCE A NEST. SEVERAL SMALL FEATHERS WERE IN RUNWAYS LEADING TO TOP PORTION OF GRASS. ALSO

TOP VIEW



SIDE VIEW



C. ZIEGLER
1956

JOURNAL

APR 8 (CONT)

POINT ISABEL, CONTRA COSTA CO., CALIF.

MANY PELLETS (SIZE) OF MICROTUS (?) IN RUNWAYS. THE GROUND HERE, ALTHO A LITTLE DAMP, IS QUITE HARD BUT THE DEPRESSION SEEMED TO HAVE BEEN DUG OUT (NOT FORMED NATURALLY BY EARTH CREEKING, ETC) SINCE IT WAS SO ROUND. MAYBE OLD NEST OF MICROTUS? GRASS IN NEST MAY HAVE BEEN THE SHREDS OF SONICORNIA STRIPPED OFF BY THE ANIMAL BUT SMALL TORN-UP PIECES OF PAPER WERE SCATTERED THRU THE NEST TOO. GROUND THAT THE NEST WAS IN WAS ABOUT 3-4 FT. ABOVE ~~HIGH TIDE~~ WATER'S EDGE BUT AT LEAST 150 FT HORIZONTALLY FROM IT. FROM THE DRIFT WOOD SCATTERED AROUND IT WOULD SEEM THAT AT A VERY HIGH ~~[illegible]~~ TIDE THE WATER WOULD BE ONLY A FEW INCHES VERTICALLY BELOW NEST BUT NORMAL TIDES WOULD NOT COME CLOSE TO IT. ONE SMALL HILLOCK NEAR BY ABOUT 3-4 FT VERT. ABOVE ~~THE~~ WATERLINE GAVE 3 MICROTUS (2 ADULT & 1 YOUNG). SONICORNIA ABOUT 6 INCHES HIGH GREW ON IT AND WAS MATTED IN MOST PLACES TO FORM A ROOF 2-3 IN ABOVEGROUND. MANY ~~MANY~~ RUNWAYS WITH MICROTUS & SOME SMALLER DROPPINGS WERE SEEN UNDER THIS MAT. RUNWAYS WERE ALSO PRESENT AT EDGE OF HILLOCK

C. ZIEGLER
1956

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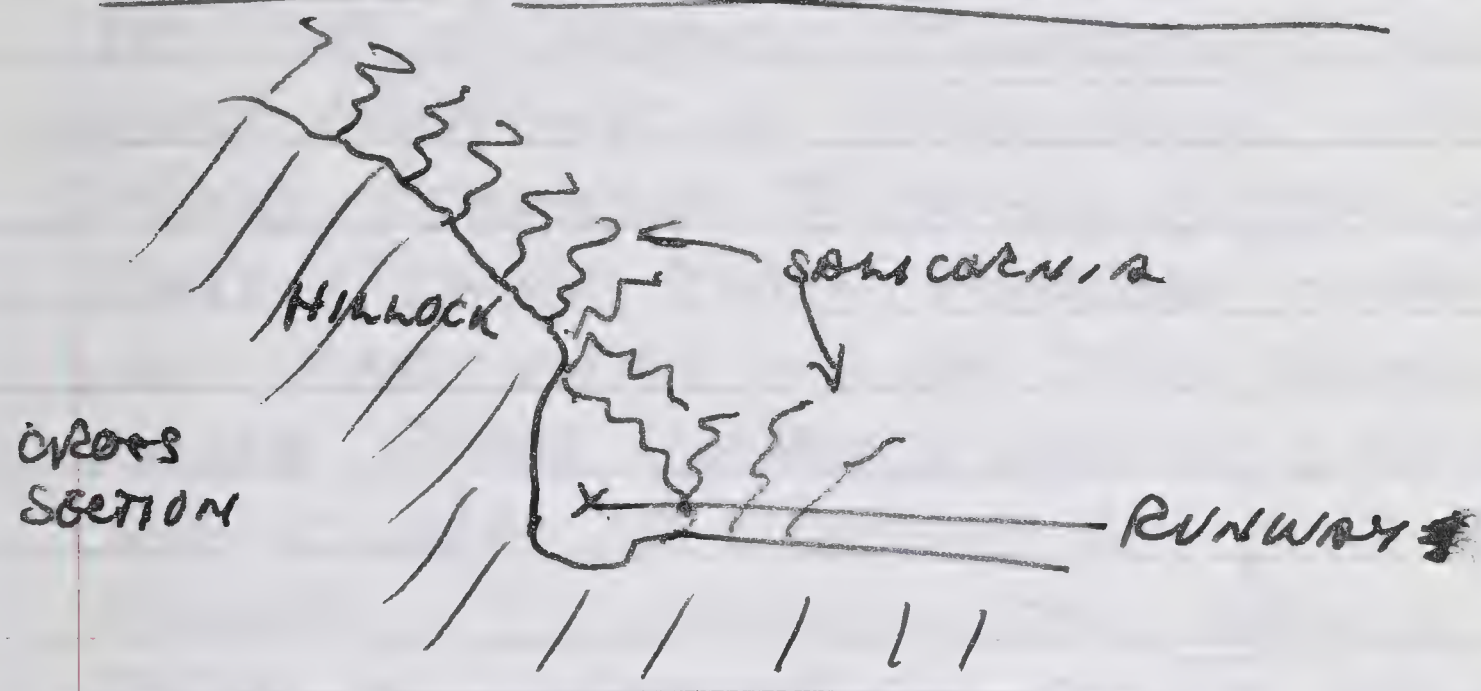
APR 8 (CONT) POINT ISABEL, CONTRA COSTA CO., CALIF

AND IN CREEKS ~~ON~~ IT — THE OPEN SIDE BEING COVERED BY THE DROOPING SALICORNIA



ALSO INTERESTING WERE ~~SEVERAL~~ 2 BARE SPOTS ON CORNERS OF THE HILLOCK WHERE THE GROUND WAS BARE EXCEPT FOR SCATTERED FINE GRASS STEMS (NOT SALICORNIA). MICROTUS (?) PELLETS WERE PRESENT SCATTERED OVER SURFACE ALSO. A THIN GRASS, GROWING WHERE THE SALICORNIA HAD NOT COVERED, SHOWED SIGNS OF HAVING BEEN EATEN OFF CLOSE TO GROUND. 2 RUNWAYS COVERED BY SALIC. RAN INTO ONE OF THESE SPACES AND ONE MORE WORN PATH LED OVER THE BARE EDGE OF THE HILLOCK TO A RUNWAY LIKE THAT ILLUSTRATED ABOVE. NO COVER ABOVE THESE SPACES AT ALL. NEARLY ALL THE PIECES OF DRIFTWOOD LODGED IN SALIC HAD RUNWAYS BESIDE THEM. ON NE SIDE OF ROAD SOME SPOTS HAD A THICK, MATTED GRASS 4-5 INCHES TALL GROWING ON TOPS OF HILLOCKS. RUNWAYS AN INCH + ~~A QUARTER~~ HALF TO 2 INCHES WIDE WERE PRESENT THRU THE THICK MAT

JOURNAL

APR 8 (CONT.) POINT ISABEL, CONTRA COSTA CO, CALIF.

APPEARING ONLY AT THE EDGES OF THE GRASS. ALSO VERTICAL HOLES RAN UP THRU GRASS FROM TUNNELS TO TOP OF MAT. MICROTUS (?) PELLETS WERE PRESENT IN THE RUNS. THE GRASS SEEMED TO HAVE BEEN MORE EATEN THRU THAN FORCED THRU IN THE MAKING OF THE RUNWAYS. FRESH GRASS SPROUTS WERE EATEN OFF CLOSE TO GROUND ON THE RUN FLOORS. I WORKED THE SAMIC FLATS JUST A FOOT OR SO ABOVE HIGH TIDE LINE WHERE SAMIC WAS ABOUT THE ONLY PLANT & WHERE IT GREW ABOUT 2-3 INCHES TALL & NOT VERY MATTED. NO RUNWAYS WERE NOTICED HERE AND ONLY WHERE THE GROUND ROSE TO DIKES OR HILLOCKS DID THE SAMIC GET TALL (UP TO 1 FOOT) AND RUNWAYS & A FEW HOLES SEEN. SAW AN ABOUT OR BREEDING BONAPARTE'S GULL & 2 WITH JUST PART BLACK HEAD NEAR ALBANY DUMP ROAD.

APR 9 ½ MI. W. GRIZZLY PEAK, OAKLAND, ALAMEDA CO. CALIF.

4:45 PM. RAN 8 QUAIL TRAPS WITH VIC LOWN, ONLY 2 BIRDS IN TRAPS A GOLDEN CRO'D SPARROW WITH NO YELLOW CROWN F'S — ONLY PINFEATHERS IN SHEATHS ON CROWN. THE OTHER A JUNCO WHICH I PUT UP. HEAVY FAT DEPOSITS THROUT BODY.

C. ZIEGLER
1956

JOURNAL

APR 14 STRAWBERRY CANYON, ALAMEDA CO., CALIF.
LEFT WITH 200 (13 FIELD GROUP FROM STADIUM AT 8:30. WENT UP HILL FROM FIRE ROAD JUST BEFORE BOTAN. GARDEN ON CICLOTRON ROAD. TOOK APART 2 WOODRAT NESTS BUT CAUGHT ONLY A PEROMYSCUS TRUEI IN ONE OF THEM. BOTH NESTS ON N-FACING SLOPES. TREES + SHRUBS FAIRLY LEAFY NOW. DAY DRIZZLY, BUT NOT TOO COOL. NO WIND TO SPEAK OF. CAME BACK IN AT 12:00 NOON. ALSO TORE INTO A SMALL TREE NEST 15-18 FT. UP IN ELDERBERRY(?) TREE. NO RAT HERE EITHER. ANGLES, ENSATINA + BATRACHOSEPS FOUND IN GROUND NESTS. GROUND FAIRLY MUDDY FROM PAST 2 OR 3 DAYS OF INTERMITTENT LIGHT TO MODERATE RAIN. BIRDS —

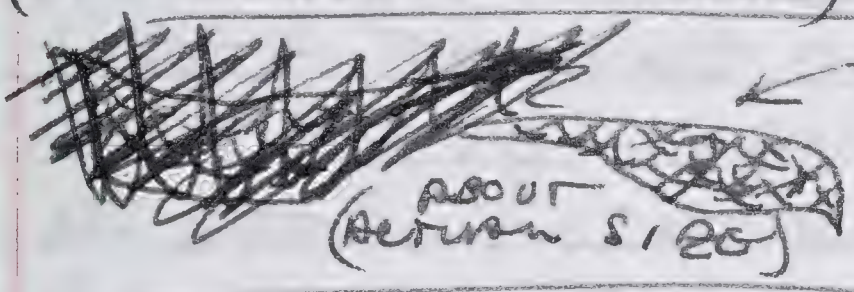
GREHORNED OWL. 1
STELLER JAY — 2
BUSH TITS — FLOCK
WREN TIT — 1
DOWNY W'PECKER — 1

APR 15 POINT ISABEL, CONTRA COSTA CO., CALIF.
SET OUT 50 MUS. SPE'S LAST NIGHT ALONG DYKE LEADING NE FROM OLD RAILWAY ROAD IN MARSH. 5 OF THESE SET ON 2 SMALL KNOLLS JUST 10' TO SIDE OF DYKE. THESE KNOLLS ARE NOT FLOODED AT HIGH TIDE BUT THE CONNECTION TO DYKE MAY BE UNDER WATER ~~WHEN IT IS~~ BY HIGH TIDE. ALSO

C. ZIEBLER
1956

JOURNAL

APR 15 (CONT.) POINT ISABEL, CONTRA COSTA CO., CALIF.
SET 2 RAT TRAPS: 1 BESIDE DYKE ABOUT WIDE LINE (NOT SPRING THIS AM), AND ANOTHER ON PIECE OF WOOD LAYING ACROSS SMALL 2½' DEEP CREEK (2 FT WIDE) RUNNING INTO BAY. THIS LAST TRAP SPRUNG BUT NO HAIR, BLOOD ETC. COULD HAVE JUST SPRUNG ITSELF. ON THIS BOARD I NOTICED 3 SCAT ABOUT 1 INCH (OR A LITTLE LESS) LONG & TAPERED



MAYBE MUSTELA FRENATA?

SAW A RATHER LIGHT BROWN RAT RUNNING FROM SAME THICKET TO, AND ALONG, DYKE LAST P.M., AT ABOUT 6:00. ALSO FOUND LOWER JAWS, FRESHLY CHEWED OF MEAT & WITH BACK PORTIONS MISSING ALONG DYKE — ROOTED MOLARS WELL WORN DOWN — LOOKED LIKE RATTUS. ON DYKE SAW AN INTESTINAL TRACT LYING UNDER SMALL BUSH — STILL RATHER FRESH — ONE OF TWO TRAPS SET BESIDE IT CAUGHT A MICROTUS. ALSO CAUGHT A MUS ON DYKE & 2 MORE MICROTUS ON KNOLLS MENTIONED ABOVE. ONLY TWO TRAPS OUTSIDE ALSO WERE WET BY HIGH TIDE, BURIED A QUART BOTTLE NOTHING LOUCH WITH GROUND BESIDE DYKE AND SMEARED TOP WITH SARDINE & DROPPED ½ SARDINE INTO IT. HIGH TIDE FILLED IT UP. ONE-EARED ONE

C. ZIEGLER
1956

JOURNAL

APR 15 (CONT) POINT ISABEL, CONTRA COSTA CO., CALIF.

BURIED LIKE THIS FIRST ONE BUT HIGHER & NEAR ROAD DID NOT FILL UP BUT WAS STILL EMPTY HAD HOPED TO CATCH SHREW'S IN THEM — THEY WERE BOTH BURIED IN RUNWAYS. ALL MUS. SPEC. TRAPS WERE STILL BAITED WITH WALNUTS FROM LAST WEEK SO I DROPPED A LITTLE SARDINE OIL FROM THE CAN ONTO EACH TREADLE GIVING A GOOD FISH SMELL (I HOPE) TO BAIT WITHOUT HAVING TO BAIT EACH ONE WITH PIECES OF SARDINE. THE ~~GALLON~~ QUART BOTTLE-BURYING HOLE WAS ABOUT 10-12 INCHES DEEP & ~~[illegible]~~ SHOWED WATER ABOUT 8 OR 10 INCHES DOWN. THE HIGHER PARTS OF DYKES & KNOLLS IN THE MARSH ARE ONLY ABOUT 3 FT OR LESS ABOVE THIS. HIGH TIDE MARK IS ABOUT A FOOT ABOVE THIS, THEREFORE BURROWS IN DYKES, EVEN IN TIME OF NORMAL TIDES, CANNOT BE OVER 2 FT DEEP TO PREVENT WATER SEEPAGE INTO THEM.

ALL MY TRAPPING IS BEING DONE ON THE N SIDE OF THE SPORTMENS CLUB ROAD LEADING FROM BAY-SHORE HIGHWAY OUT ONTO POINT. ON THE S. SIDE OF THIS ROAD THE MUDFLATS BEYOND AN ORIGINALLY 50 FT.

C. ZIEGLER
1956

JOURNAL

APR 15 (CONT.) POINT ISABEL, CONTRA COSTA CO., CALIF.
WIDE STRIP OF HIGH GROUND (6 FT ABOVE WATER) AND BERM ARE BEING FILLED IN WITH DIRT FROM SOME HIGHWAY PROJECT. I SAW THE GROUND BEFORE FILLING AND IT MIGHT HAVE SHELTERED SOME MICROTUS BUT DID NOT HAVE THE EXTENSIVE SONICORNA AS ON N SIDE OF ROAD.
HAD A VERY LOW TIDE THIS AM WITH THE WATERLINE AT LEAST 100 YDS OUT FROM BERM. WARM, CLOUDY LAST NIGHT WITH LIGHT RAIN. WARM & CLOUDY THIS AM.
SAW A GROUND SQUIRREL ALONG E SIDE OF BAYSHORE HIWAY BUT HAVE SEEN NONE ON MARSH DYKES OR ROAD. ON AN ADJOINING POINT NW OF PT. ISABEL (SEPARATED ONLY BY A 20 FT WIDE STREAM OF WATER AT HIGH TIDE BUT CROSSABLE ON ROCKS AT LOW TIDE) I FOUND A RATTUS REMAINS — TAIL, VERTEBRAE & BACK SKIN — BESIDE A 2 INCH IN DIA. HOLE — LOOKED LIKE WORK OF SOME SMALLER ANIMAL — ~~PROBABLY~~ MAYBE MICROTUS OR OTHER RATTUS. AROUND THE MICROTUS (?) AND LARGER HOLES IN ISABEL MARSH I NOTICED TODAY, & DEC. IN THE PAST, FEATHERS & BONES OF BIRDS APPARENTLY DRAGGED NEAR. — NEVER COMPLETE SKELETONS, JUST WINGS OR RIBS, ETC.

MOSTLY EATEN

C. ZIEGLER
1956

JOURNAL

APR 15 (CONT) POINT ISABEL, CONTRA COSTA CO., CALIF.

SAW A DEAD CORMORANT ON BEACH OF THE ADJACENT POINT NW OF ISABEL AND OLD REMAINS OF 2 OR 3 (GULLS?) WATER OR SHORE BIRDS ON ISABEL BEACH. AT ONE POINT A DISTINCT TRAIL 3 INCHES WIDE LED OUT OF SALICORNIA-COVERED HILLOCKS ALONG ROAD TO THE BEACH ON THE BAY-FACING SIDE OF PT. ISABEL MARSH. ALSO A TRAIL LIKE THIS SEEN LEADING INTO DRIFT WOOD DRIFT BESIDE A POOL ABOVE NORMAL HIGH TIDE MARK. BIG ENOUGH TRAIL FOR RATTUS. MANY OF THE SMALLER SHORE BIRDS SEEN BUT NO DOWITCHERS NOTICED. ALSO NO BIRDS THAT WOULD SEEM TO PREY ON MICE MORE, EXCEPT POSSIBLY GULLS, HAVE BEEN SEEN HERE TO DATE.

APR 17. BAYSHORE HIGHWAY & BUCHANAN STREET, ALBANY, ALAMEDA CO., CALIF.

SET OUT 50 MUS. SPEC'S + 2 RAT TRAPS IN SPARSE SALICORNIA + GRASS UP TO 10 IN. HIGH BESIDE POND ON E SIDE OF HIGHWAY. TRAPS SET 10-15 FT APART NEAR HOLES 1½-2 IN IN DIA IN SIDE OF BANK & IN GROUND. MAY HAVE BEEN OLD MICROTUS OR OLD THOMOMYS FEEDING HOLES. DID NOT APPEAR TO BE IN USE NOW TWO. SOME

ZIEGLER
1956

JOURNAL

APR 17 (CONT) BAYSHORE HIGHWAY & BUCHANAN STREET, ALBANY, ALAMEDA CO., CALIF.
OLD PILES OF DIRT NOTICED ~~NEW~~ WITH NO HOLES VISIBLE, SCATTERED OVER FIELD. GOT 1 MICROTUS & 2 MUS MOST OF OTHER TRAPS NOT SPRUNG. ♂ MICROTUS TO DR. BENSON FOR ZOO 113 DEMONSTRATION AT U.C. RAINY OCC. LAST NIGHT; COOL & CLEAR THIS AM.

APR 21 BAY FARM ISLAND, ALAMEDA CO., CALIF.
WALKED BAY MARGIN TO W SIDE OF ROAD ON W SIDE OF GOLF COURSE. FROM 9:00 TO 11:15 AM WALKED SALICORNIA MARSH & BAY MUDFLATS UNCOVERED BY EBB TIDE ABOUT A ½ MI. SW OF GOLF CLUB HOUSE. MEADOW larks & SAVANNA SP's. IN SALIC AND QUITE A FEW SHORE BIRDS ON APPARENTLY MUDDY BARS & BEACHES WHICH FIRST WERE UNCOVERED ABOUT 10:30 AM. ALSO, FROM 11:20-11:50 AM LOOKED AT 2 NESTS (FOUND ON APR 7, 56) NEAR GOLF COURSE PARKING AREA. LEFT AT NOON. WIND MODERATE, CLEAR, NOT TOO WARM THO. WENT WITH DR. MILLER AS GROUP LEADER. AT SALICORNIA MARSH, ROAD WAS SEPARATED FROM BAY BY ABOUT 100-150 FT. OF SALIC WITH SOME GRASS NEAR EDGE OF WATER. THEN MUD FLATS BEYOND THIS GRASS EDGE. DR. MILLER SAID ~~MOST~~ MUD WAS EXPOSED HERE FOR A GREAT DISTANCE OUT BY LOW TIDE. FOUND WINGS & FEATHERS OF CLAPPER

C. ZIEGLER
1956

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APR 21 (CONT) BAY FARM ISLAND, ALAMEDA CO., CALIF.
RAIL + (PROBABLY) WESTERN SANDPIPER
FEATHERS ON POINT, IN SAN LEANDRO. BIRDS
SEEN OR HEARD:

WESTERN GREBE – 2
– CORMORANT – 75±
AMER. EGRET – 1
BL. CR. NIGHT HERON – 1
SCAUP – 10
CLAPPER RAIL (1 REMAINS ONLY)
SEMI-PALM. PLOVER 8
KILLDEER – 2
BLACKBELL'S PLOVER – 25±
HUDSONIAN CURLEW – 3
WILLET – 3
KNOT – 1 (IDENT. BY DR. MILLER IN WINTER PLUMAGE)

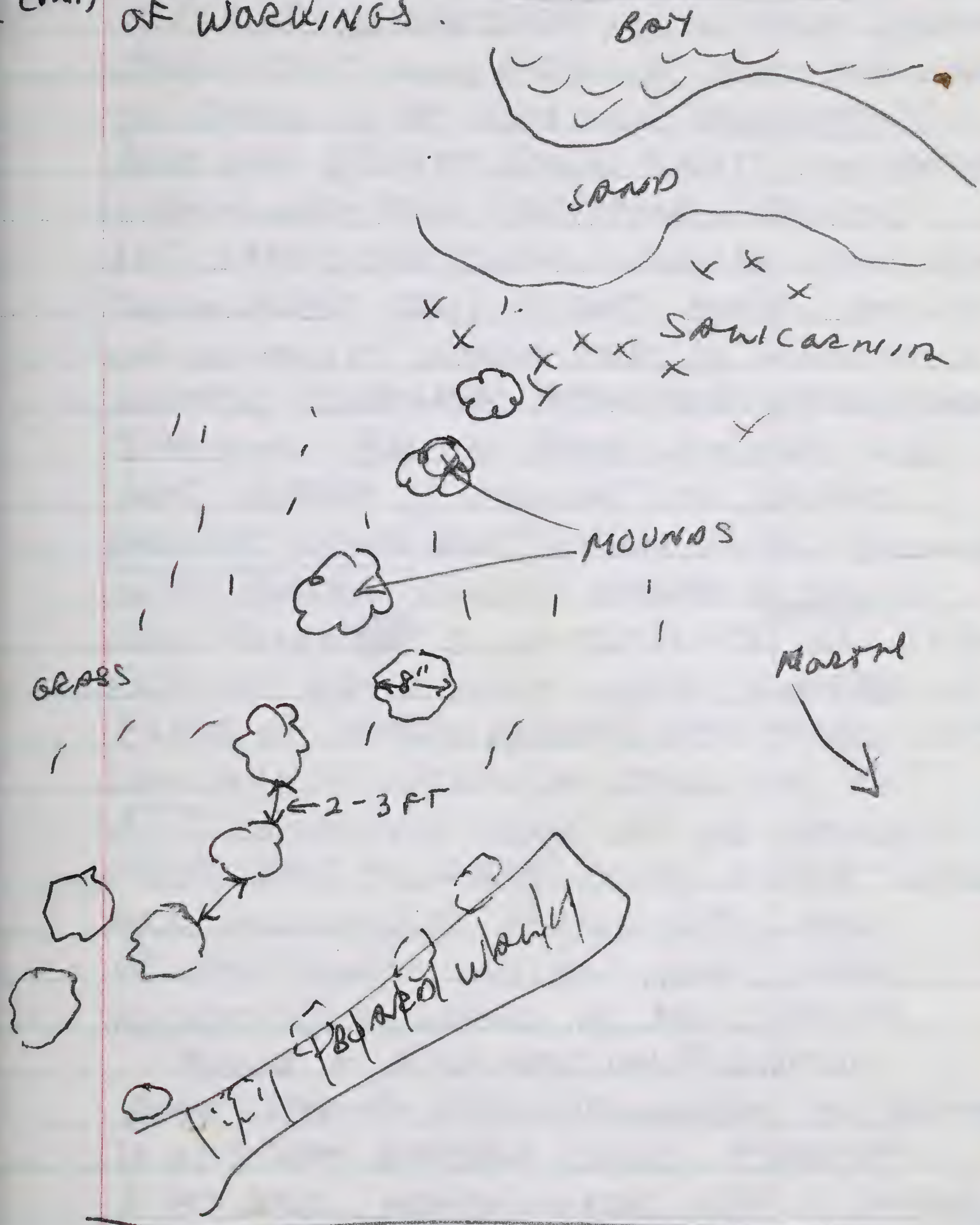
RED-BACKED SANDPIPER – 20
SHORT-BILLED DOWITCHER – 50±
WESTERN SANDPIPER – 120±
MARBLED GODWIT – 10
WESTERN GULL } IDENT BY DR MILLER
CALIF GULL }
FORSTER'S TERN – 15
CASPIAN " – 25
HORNED LARK 1 NEST WITH 2 YG.
CLIFF SWALLOW – 1
ENG SPARROW – 2
W. MEADOWLARK – 5
BREWER'S B'BIRD – 4
SAVANNAH SPARROW – 1

APR 22 POINT ISABEL, CONTRA COSTA CO., CALIF
FOLLOWED GOPHER BURROW BY PILES
OF DIRT + SAND PLACED EVERY
2 OR 3 FT FROM HIGH GROUND IN
PARKING LOT AT SKEET RANGE DOWN
INTO SAN PABLO MARSH TO WITHIN
25 OR 30 FT OF WATER'S EDGE AND
WHERE GROUND WAS NOT MORE THAN
A FOOT & A HALF OR 50 ABOVE NORMAL
HIGH TIDE LINE IF THAT MUCH, SOLID
SAND IN MOUNDS, THE LAST OF WHICH
SHOWED STILL DAMP SAND. TOWARDS
THE PARKING LOT AGAIN ABOUT 35 OR 40' FROM
LAST MOUND FOUND ANOTHER QUITE FRESH
PILE OF SAND AND 2 THAT MIGHT HAVE
BEEN A DAY OR SO OLD, ALL IN SAME WAYS

C. ZIEGLER
1956

JOURNAL

APRIL (CONT) POINT ISABEL CONTRA COSTA CO., CALIF
OF WORKINGS.



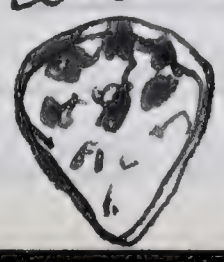
9:15 AM. CAUGHT A 28 INCH LONG
GARTER SNAKE - NARROW YELLOW DARSAL
STRIPE & REDDISH SIDES. - NEAR
GOPHER WORKINGS BESIDE SHEET RANGE PARKING
LOT. SNAKE CRAWLED THRU GRASS
TO A THICK BEAM LYING ON GROUND &
WENT INTO A 2 INCH BURROW BESIDE IT.
DUG DOWN IN BURROW & PULLED HIM OUT. GOT

J. ZIEGLER
1956

JOURNAL

APR 22 (CONT) POINT ISABEL, CONTRA COSTA CO., CALIF.
MUSK, OR WHATEVER IT IS THE EXTREME THRU VENT, AM OVERME BUT MANAGED TO FORCE UP A SMALL MICROTUS BODY WAS PRETTY WELL SHOT - INTESTINES + BACK LEG SKIN PARTIALLY DISSOLVED BUT SAVED THE SKULL. MOUSE HAD BEEN SWALLOWED TAIL FIRST AND COMING UP WITH IT WERE TWO ½ INCH LONG SLUGS, SWALLOWED AFTER MOUSE HAD BEEN EATEN.
9:40 AM BESIDE ROAD LEADING NW INTO MARSH I CAUGHT A SECOND GARTER SNAKE ABOUT 30 INCHES LONG. 3-SCALE WIDE DORSAL YELLOW STRIPE + SAME SIZE YELLOW SIDE STRIPES. SLID FROM EDGE OF BANK DOWN INTO CRACKS IN FLOOR OF MARSH BORDER OVERHUNG WITH SARICORNIA - POKED A STICK IN, PUT A STICK ON HIS HEAD AS HE CAME OUT OTHER END + CAUGHT HIM. FELT STOMACH ALL ALONG BUT FOUND NO LUMPS OR ANYTHING INSIDE HIM, MANY MICROTUS(?) BURROWS IN THIS AREA.

FOUND A BIRD NEST ON N SIDE OF ROAD LEADING NW INTO MARSH. ON GROUND 20 FT FROM WATERS EDGE. + ABOUT 3 FT VERTIC. ABOVE WATER JUST DEPRESSION IN HALF MUD + HALF SAND GROUND W/ ON SCATTERED PATCHES OF 2 IN SARIC. LINED W/ON BROKEN SHELLS + FEW BITS OF SARICORNIA STEMS. 3-4 IN ACROSS 4 EGGS 1 3/8 IN LONG ABOUT 7/8 IN WIDE AT THICKEST PART



DIRTY WHITE OR LIGHT GRAY WITH BLUEISH BROWN SPOTS

C. ZIEGLER
1956

JOURNAL

APR 22 POINT ISABEL, CONTRA COSTA CO., CALIF.
(CONT.) DUG OUT BURROWS (NEAR NW ROAD) THAT SHOWED 3 TO 4 INCH SEGMENTS OF GRASS SCATTERED IN FRONT OF, [redacted] & PARTIALLY DRAPED IN, HOLES. NO CUT SALICORNIA IN THESE PILES. ALTHO PLENTY OF FRESH SALIC WAS NEARBY. HOLES WERE ROUND & A LITTLE OVER 1/4 IN IN DIA AT SURFACE BUT JUST BELOW SURFACE WERE SEEN TO ENTER INTO OLD INCH TO 2 INCH WIDE CREEKS FORMED WHEN EARTH DRIED. MOST OF THESE CREEKS WERE CACROSS OVER ON TOP OF GROUND BUT RAN DOWN ABOUT A FOOT TO FT & HALF BELOW SURFACE.

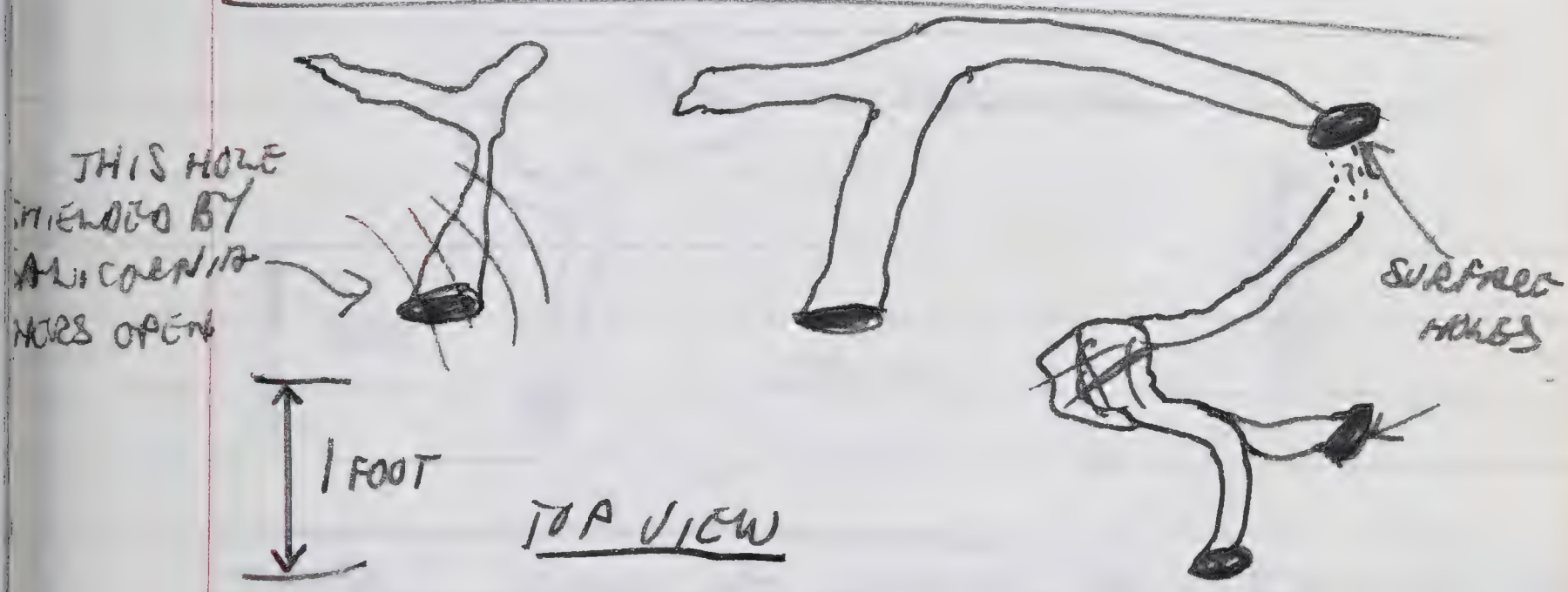


DIAGRAM OF RUNS DUG OUT.

FOUND SINEW OF OLD GRASS & STEMS + DROPPINGS 12 INCHES BELOW SURFACE IN BURROW WHOSE ENTRANCE SHOWED FRESH GRASS CUTTINGS. SURPRISING, TWO SAW NO FRESH GRASS 2 OR 3 INCHES IN IN [redacted] BURROW - JUST AT HOLE + ENTRANCE. AT 10:45 AM SAW ANOTHER GARTER SNAKE YELLOW DORSAL + RED SIDE STRIPES IN 1 FT DEEP CRANICE ON N SIDE OF ROAD.

OST

C. ZIEGLER
1956

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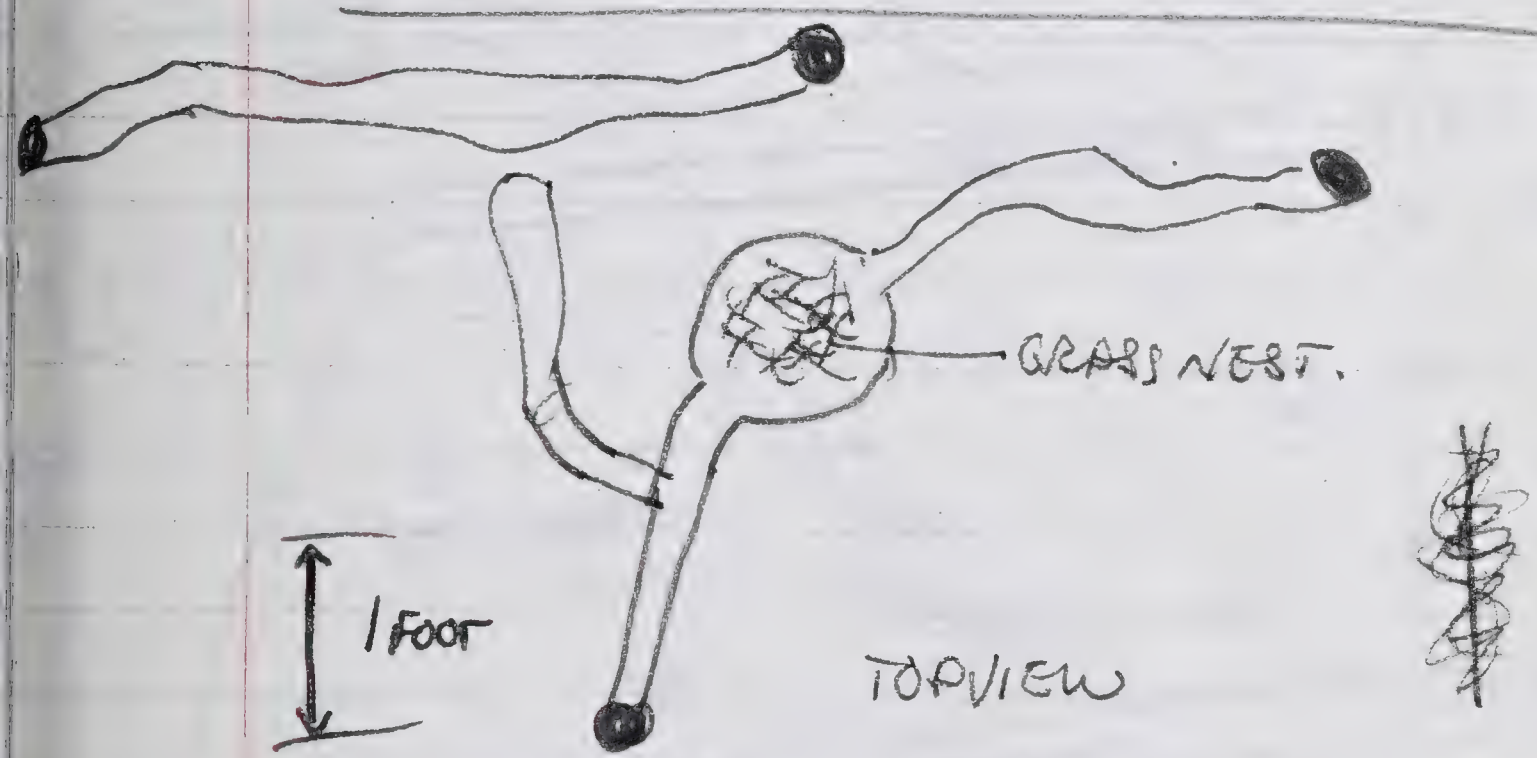
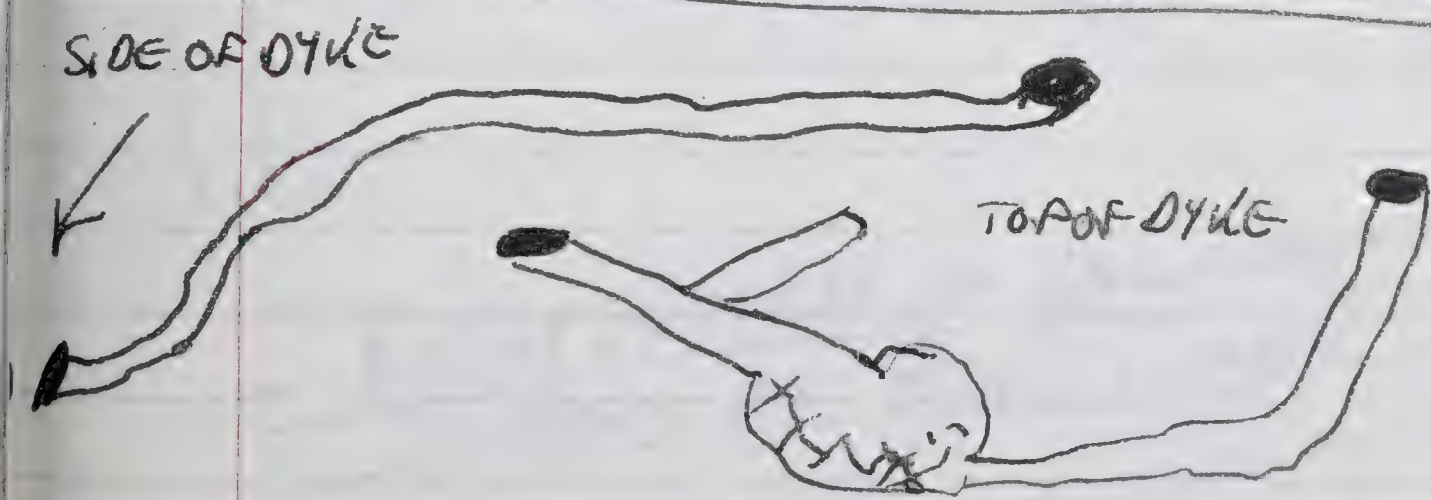
AREA POINT ISABEL, CONTRA COSTA CO., CALIF.
(CONT.) BY TIME I HAD CLEARED SQ WICBRUM AWAY FROM TOP OF CREVICE SNAKE HAD DISAPPEARED.

DUG OUT BURROW ON DIKE 3 FT ABOVE HIGH TIDE N OF NW ROAD GRASS (ESP. SEEDING HEADS) SER'S. UP TO 6 IN LONG DROPPING, IN TUNNEL A FOOT DOWN & 20 IN FROM ENTRANCE FOUND GRASS NEST - OF FINE FRESH OR SLIGHTLY DRIED GRASS MAYBE YOUNG SHOOTS OF GRASS FOUND IN HOLE. NEST CUPSHAPED FILLING BOTTOM ½ OF 5 INCH DIA. HOLE. NO DROPPINGS IN NEST OR



TUNNEL! SOME OF CRACKS IN DIRT UTILIZED IN THESE PASSAGEWAYS ALSO BUT



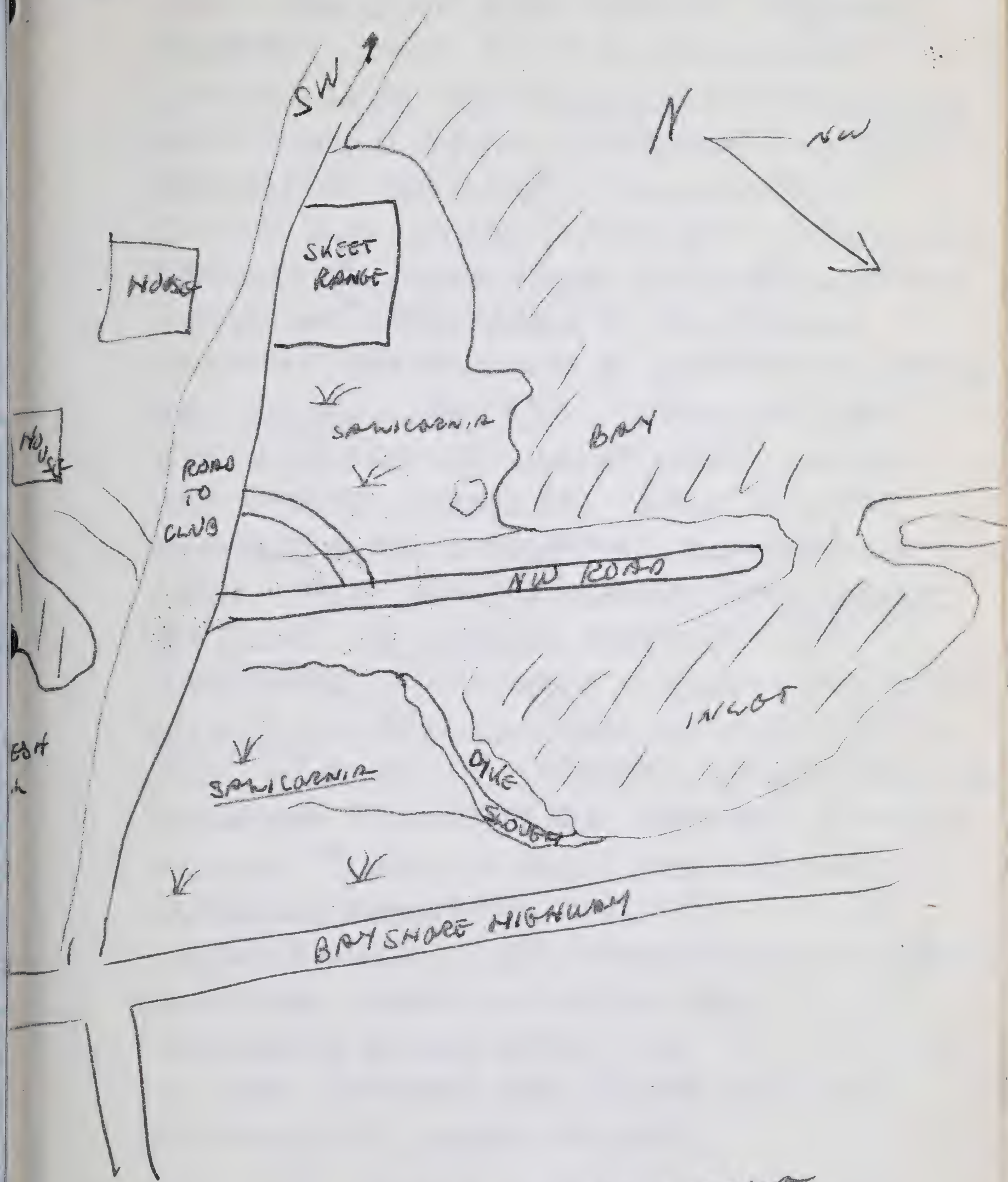
CRACKS ROOFED OVER WITH SEVERAL INCHES OF DIRT ABOVE, FOUND A DEAD DOWITCHER ON 2 INCH HIGH SALICORNIA 5 FEET

C. ELEANOR
1956

JOURNAL

APR 22 (CONT.)

POINT ISABEL, CONTRA COSTA CO., CALIF



ROUGH SKETCH OF SALICORNIA MARSH AT POINT ISABEL

J.C. ZIEBLER
1956

JOURNAL

APR 22 (CONT.) POINT ISABEL, CONTRA COSTA CO., CALIF.
FROM EDGE OF BAY INLET, LYING BREAST DOWN & A 2 INCH LONG & 1 INCH WIDE STRIP OF SKIN & A LITTLE MEAT HAD BEEN CUTTEN OFF OF SIDE OF LOWER BREAST & STOMACH. COLLECTED.
FOUND AN OWL(?) PELLET 2½ INCHES LONG & ¾ INCH WIDE WITH YELLOWISH HAIR & VERTEBRAE & A FEMUR — MIGHT HAVE BEEN A LARGE MICROTUS OR SYNAPTOMYS. PELLET WAS ON A PIECE OF DRIFT WOOD WITH NO MORE NEARBY. SAW 3 MORE SHORE(?) BIRD SKELETONS SCATTERED OVER THE DRIER SHORT SALICORNIA BUT NO MICROTUS RUNWAYS OR DROPPINGS. WEATHER - CLOUDY BUT WITH WISPS OF FOG COMING IN ABOUT NOON & A LITTLE COOL & QUITE WINDY. SKEET SHOOTERS HOLDING A MATCH AT RANGE. TIME IN FIELD 9:AM — 12:15 PM. BIRDS:
WESTERN SANDPIPER — 75+
DOWITCHERS — 30+ (STANDING IN SHORT SALICORNIA & ALONG SHORE AT HIGH TIDE)
BROWER'S BLACKBIRDS — 2
— SEE SKETCH FOR ROUGH IDEA OF LOCALITIES MENTIONED.

APR 24 UNIV. OF CALIF CAMPUS, BERKELEY, ALAMEDA CO., CALIF.
RICHARD BANKS, A GRAD STUDENT IN ORNITHOLOGY IN MVZ GAVE ME A CEDAR WAXWING BROUGHT IN TO MVZ BY SOMEONE ELSE (WHO?!). BIRD

J.C. ZIEGLER
1956

JOURNAL

APR 24 (CONT.) UNIV. OF CALIF. CAMPUS, BERKELEY, ALAMEDA CO., CALIF.
SAID TO HAVE BEEN PICKED UP IN EUCALYPTUS GROVE NEXT TO LIFE SCIENCES BLDG. ON CAMPUS. APPARENTLY COULD NOT FLY BUT JUST WHAT WAS WRONG COULD NOT BE DETERMINED. PUT UP ~~PRESERVE~~

APR 28 WILDCAT CANYON, CONTRA COSTA CO., CALIF.
8:15 AM - 12:15 AM. WEATHER COOL THEN WARMING UP ABOUT 10:00 AM. SLIGHT WIND. OVERCAST TILL 10 AM. WALKED PICNIC AREA NEXT TO TENNIS COURTS & HILL TO W SIDE OF PICNIC AREA. MANY BIRDS SINGING BLACK HEADED GROSBEAKS, OLIVE-SIDED FLYCATCHER AND ORANGE CROWNED WARBLERS VERY LOUD. GENE VOLZ CAUGHT A BURRHONOTUS CAERULEUS - SAID ONLY A VERY FEW CAUGHT HERE IN AREA BEFORE. JOHN BURNS GOT A TANAGER BUT DON'T KNOW ANYTHING MORE ABOUT IT. JIM ANDERSON'S GROUP GOT A ROBIN DEAD IN A TREE WITH 1 TOE CAUGHT IN LAUNDRY STRING WRAPPED AROUND BRANCH. BIRD PROBABLY WAS CARRYING STRING FOR NESTING MATERIAL, IT CAUGHT ON A BRANCH & THE ROBIN WAS HELD BY A TOE CAUGHT IN THE ~~[illegible]~~ STRING. SAVED IT ~~AS~~ TO ~~PUT STUFF~~ UP FOR PRACTICE IF I GOT TIME. BIRDS SOON AS HEARD!
TURKEY VULTURE - 1 (+1?)
CAL. QUAIL - 2 (of 2)

C. Z. COLLER
1956

JOURNAL

APR 28 (CONT) WILD CAT CANYON, CONTRA COSTA CO., CALIF

MOURNING DOVE - 51
ANNA'S HUM'BIRD - 4
RED SH. FLICKER - 2
HAIRY(?) W'PECKER - 1
OLIVE-SIDED FLYCATCHER - 2
WESTERN(?) FLYCATCHER - 1 (NO COMM NOTES)
STELLER'S JAY - 8
SCRUB JAY - 2
C-B CHICKADEE - 1
PLAIN TITMOUSE - 1
BUSH TIT - 2
WREN TIT - 3
(HOUSE WREN SEEN BY RATTI'S GROUP)
ROBIN - 4 - SCARCE!
ORANGE CR'D WARBLER - 3
(TOLMIE WARBLER - 1. BY SONG "SWEET-SWEET-SWEET-SUGAR SUGAR" REC. TO R. RATTI.)
PILEOLATED WARBLER - 3
BLACK HEADED GROSBEAK - 10
PURPLE FINCH - 10
? GOLDFINCH - 5
SPOTTED TOWHEE - 5
BROWN " - 3
SONG SPARROW - 3.

APR 29 POINT ISABEL, CONTRA COSTA CO., CALIF

OUT AT 9 AM TO RUN TRAPS SET NE SIDE OF NW ROAD. DUG OUT BURROW SYSTEM THAT SHOWED FRESH SALICORNIA CUTTING AT HOLES + IN RUNS. ONE HOLE LED UNDER PIECE OF WOOD INTO A SMALL

FEBRUARY 1956

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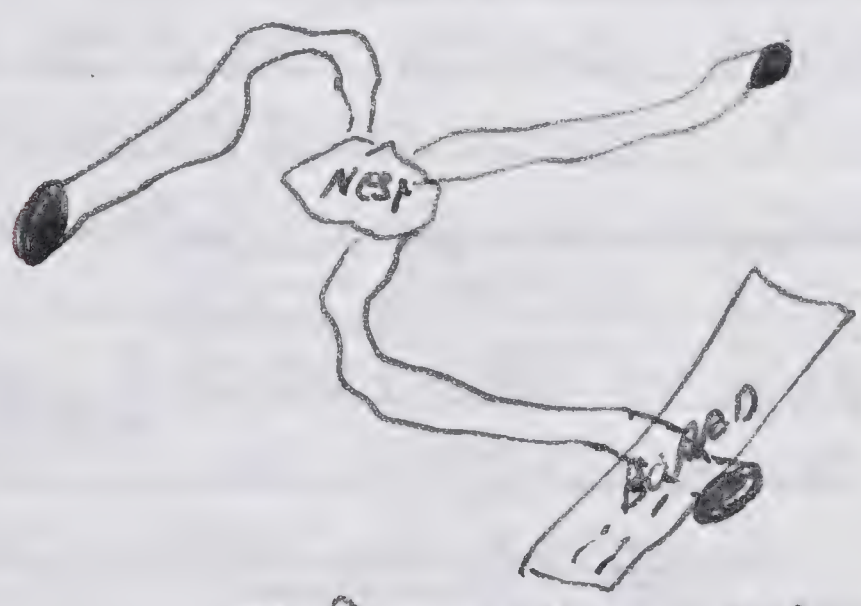
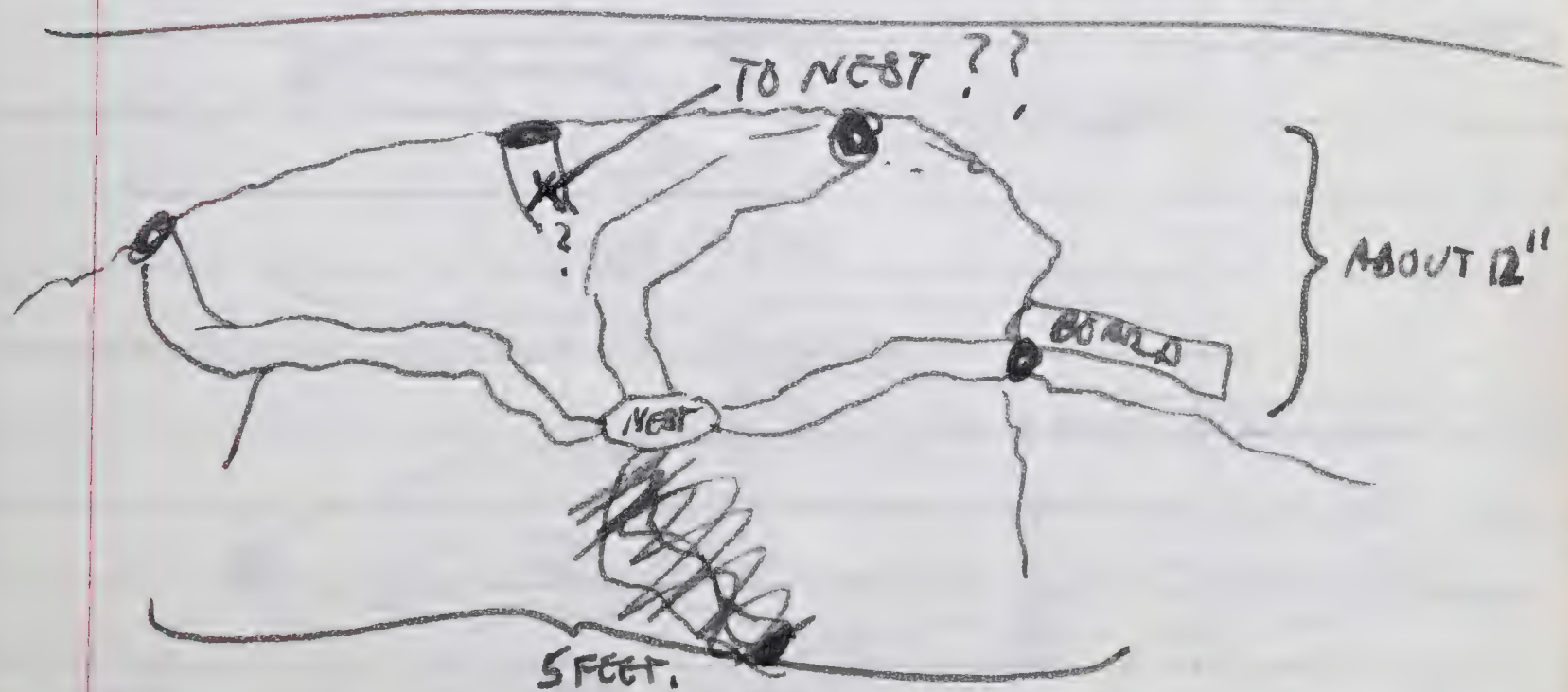
APR 29 POINT ISABEL, CONTRA COSTA CO., CALIF.

(CONT.) HILLOCK WHOSE TOP WAS ONLY A FOOT ABOVE STANDING WATER IN MARSH. MOUND JOINED THE BANK OF NW ROAD, DUG OUT A NEST OF FINE GRASS, CUP-SHAPED FILLING BOTTOM ½ OF CAVITY 4 TO 5 INCHES ACROSS & 3 TO 4 INCHES DEEP – NO DROPPINGS IN NEST. GRASS WET AS WERE SURROUNDING LOWER WALLS OF CAVITY, BUT PASSAGES LEADING OUT & SLIGHTLY UPWARDS WERE FAIRLY DRY. MAYBE WATER IN MARSH WAS LEFT FROM LAST HIGH TIDE DURING RAINS OR MAYBE JUST RAIN WATER ITSELF.



TOP VIEW OF HILLOCK



SIDE VIEW

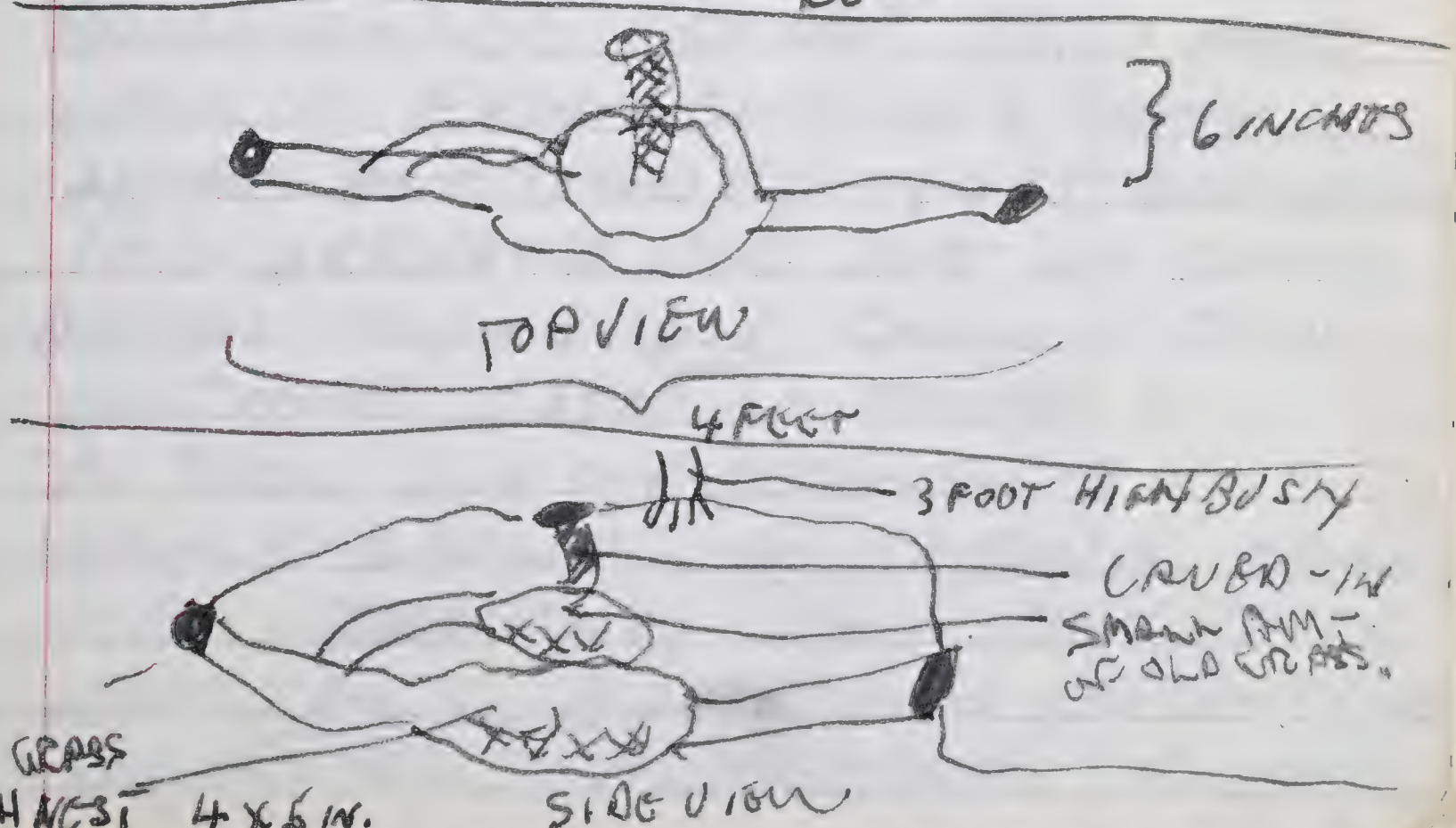
C. FIELDER
1956

JOURNAL

APR 29 (CONT) POINT ISABEL, CONTRA COSTA CO., CALIF.

TWO TRAPS SET HERE AT HOLES — 1 SPRUNG BUT NO MOUSE. HOLE DIAMETER NEAR OUTSIDE ABOUT 2" BUT INSIDE DOWN TO A INCH & A HALF. TRAP SET ACROSS RUN IN 2 INCH HIGH SPAWN LEADING ACROSS MARSH 10 FT AWAY HAD MICROTUS IN IT. GROUND MUDDY IN RUN, BUT ROP. THIS DOESN'T BOTHER MICE, SINCE PATH WELL FOOTPRINTED.

DUG OUT ANOTHER BURROW ON SAME SIDE OF ROAD BUT FURTHER TO THE NW BETWEEN THE ROAD & BAY INLET. 20 FT FROM EDGE OF INLET & 20 FT FROM ROAD WITH WATER FILLED DITCH BESIDE ROAD. ABOUT 2 FT ABOVE HIGH TIDE LINE. FRESH DROPPING ON HILLOCK INTO WHICH THE BURROWS RAN. [ ] — DROPPING SIZE. BRINNISH CHARRED DRIED GRASS IN NEST, A FEW ~~SAME~~ AREAS OF GRASS FRESH FRESH NO SPAWN INTO IT GROWS WITHIN A FOOT OF BURROW.



C. ZIEGLER
1956

JOURNAL

APR 29 (CONT.) POINT ISABEL, CONTRA COSTA CO., CALIF.

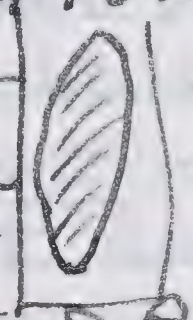
GRASS FOUND IN NEST GREW IN PATCHES AROUND THE HILLOCK. NOW EARLY ~~SEEDING~~ OR FRUITING HEADS. JUST UNDER 2 FT.-WIDE BUSH, RUNS HAD QUITE A QUANITTY OF FRESH & OLD DROPPINGS. RUNS COULD BE SEEN LEADING OVER ½ INCH HIGH GRASS COVERED AREA TO SALIC. 3 FT. AWAY, SEVERAL CUT STALKS OF GRASS SEEN IN RUNWAYS. GROUND IN RUNS SEEMED TO DIP A LITTLE BELOW OTHER LEVEL OF GROUND + GRASS WAS EITHER MISSING IN RUNS OR CUT OR WORN DOWN TO ALMOST GROUND LEVEL.

APPROXIMATELY HOLES ON DIKE NOF NW ROAD THAT SHOWED FRESH CUTTINGS OF GRASS LAST APR. 22 DID NOT SHOW ANY FRESH CUTTING THIS WEEK. OUT OF 15 OR SO HOLES ONLY 1 HAD SIGNS OF FRESH CUTTING — A 2 INCH LONG TIP OF SOME BROADLEAFED FLOWER. THIS ~~PART~~ LACK OF FRESH CUTTINGS MAY MEAN THE END OF NEST BUILDING. THE BURROWS DUG OUT IN OTHER AREAS TODAY DID SHOW FRESH CUTTINGS BOTH OF GRASS & A FEW 2-INCH SEGMENTS OF NEWLY-GROWN SALICORNIA BRANCH TIPS. ~~THE~~ ONLY THE VERY THICK NEW SALIC BRANCHES WERE FOUND IN RUNS. ALTOGETHER CAUGHT

G. ZIEBLER
1956

JOURNAL

APR 29 (CONT) POINT ISABEL, CONTRA COSTA CO., CALIF.

4 MICROTUS, 3 MUS (1 TRAPPED FOR, 1 BY TAIL + 1 TAIL ONLY!). + 1 SONG SPARROW. SET 50 MUS. SPEC'S + LOST 1. SET 2 RAT TRAPS ALSO IN 2 TO 3 INCH WIDE RUNS THAT SHOWED LARGER-THAN-MOUSE-SIZE TRACKS. 1 RAT TRAP SPRUNG — BLOOD + GREY HAIR UNDER BAR BUT NO ANIMAL. DROPPINGS IN OPEN TOPPED RUN IN THICK SPARTINA 6 IN HIGH WERE ABOUT THIS SIZE —  — PROBABLY RATTUS. SEVERAL OF THE MUS. SPEC'S IN MORE OR LESS OPEN MARSH WERE SPRUNG + DRAGGED SEVERAL INCHES — PROBABLY ALSO RATTUS. COLLECTED A DOZEN OR SO OWL(??) PELLETS FROM GROUND UNDER TELEPHONE POLE NEAR NW ROAD — SHOWED MICROTUS + PERHAPS OTHER SKULLS. WILL TRY TO HAVE OR MINNER TELL ME, IF THEY'RE OWL OR HAWK PELLETS. SAW 1 NORTHERN COMMON TRACT ON TOP OF LARGE DRIFTWOOD BEAM ON DIKE IN MARSH. COLLECTED GROSS THAT WAS SHAKING UP (OUT) IN MANY BURROWS TO TRY TO HAVE IT IDENTIFIED. OUT IN MARSH 9:AM (CLOUDS MOVED UP 1 HOUR LAST NIGHT) TO 11:AM NO SNAKES SEEN. LOW TIDE AT 9:AM CLEAR, WARM SLIGHT WIND.

C. ZIEGLER
1956

JOURNAL

APR 29 (CONT)

POINT ISABEL, CONTRA COSTA CO., CALIF.

DATA ON OWL PELLETS; APPARENTLY OWL SINCE BONES SHOWED NO EATING-AWAY OF PORTIONS AS BONES FROM HAWK'S STOMACH WOULD SHOW (ACC. TO DR ARDEN MILLER)

OF PELLETS — 17 + SMALLER BITS

LOOSE SKULLS AND LOWER JAWS PICKED UP AT ROOSTING STATION — 5 SKULLS, 9 LOWER JAW HALVES.

AVERAGE SIZE OF PELLETS — ABOUT 45 MM LONG + 35 MM WIDE + 15 MM THICK (PROBABLY SOMEWHAT FLATTENED WHEN STRIKING GROUND OR WHILE WEATHERING.) (ONLY 1 WAS 70 X 30 X 25 MM)

CONTENTS - MOSTLY HAIR + BONES BUT 1 PELLET SHOWED FEATHERS DARK ABOVE, GREY BENEATH — PRIMARIES (?) OF SHOREBIRD? 150 MM LONG

TYPES OF SKULLS + #: MICROTUS - 17
(BRAIN CASE MISSING FROM ALL SKULLS)
RATTUS - 2
THOMOMYS (?) 1 (FRAGMENTS ONLY)

TYPES OF LOWER JAWS + #. MICROTUS - 25
RATTUS - 5
THOMOMYS - 2

TOTAL — AT LEAST 17 MICROTUS
3 RATTUS
1 THOMOMYS

GRASS COLLECTED (KIND CUT + PULLED INTO BURROWS ON DIKE IN MARSH) IDENTIFIED AS FESTUCA OCTOFLORA BY U. CALIF. HERBARIUM STAFF MEMBER.

C. ZIEGLER
1956

JOURNAL

MAY 1 ½ MI. W GRIZZLY PEAK, OAKLAND ALAMEDA CO., CALIF

VIC LEWIN BROUGHT IN 2 SPOTTED TOWHEES + A CALIF. JAY HE CAUGHT IN TRAPS SET FOR CALIF. QUAIL IN BUSHES ON HILLS BESIDE STRAWBERRY CANYON. HE CAUGHT 2 QUAIL ALSO. I PUT UP THE 2 TOWHEES + JAY.

MAY 5 WILDCAT CANYON, CONTRA COSTA CO., CALIF

BIRD TRIP FROM 8:15 AM — 12:00 NOON. WALKED DOWN MAIN ROAD SE FROM TENNIS COURTS THEN UP PATHS TO ROAD ABOVE (ON SW RIM OF) WILDCAT CANYON DOWN ROAD + THEN DOWN SLOPE AGAIN TO HIT MAIN ROAD NEAR ENTRANCE TO TILDEN PARK. LIVE OAK WOODS + BRUSH SLOPES WALKED MOSTLY WITH 1 LARGE MOWED BASEBALL FIELD WATCHED ALSO. CLOUDY AT TIMES WITH 2 15 MINUTE SPELLS OF LIGHT RAIN. WIND SLIGHT WARM, WENT WITH EUGENE VOLZ' GROUP. 1 MICROTUS SEEN, ALSO FRESH GOPHER WORKINGS. NO REPTILES 2 LARGE ARTHROPODS COLLECTED FROM UNDER SMALL LOG + GIVEN TO EUGENE VOLZ. ABOUT 5" LONG + FAIRLY THICK. TREES AND PRETTY WELL IN FULL LEAF + GRASS TALL ON ROAD SIDES. DEER TRACKS SEEN ON MUDDY SLOPE. HAD BEEN RAINING YESTERDAY + DAY BEFORE ALSO SO EVERYWHERE PRETTY WET. BIRDS SEEN OR HEARD:

CALIF QUAIL — 4± HEARD CALLING ONLY
MOURNING DOVE — 3
ANNA HUM'BIRD — 1 ♂

ZIEGLER
1956

JOURNAL

MAY 5 (CONT.) WILDCAT CANYON, CONTRA COSTA CO., CALIF.

ALLEN HUM'BIRD - 2
* RUFOUS " " - 10?
(+ 10± UNIDENT HUMMERS -)
OLIVE SIDED FLYCATCHER - 2 (CALLING)
SCRUB JAY - 2
STELLER JAY - 4
BUSH TIT - 5 (1 NEST)
WRENTIT - 1 SEEN, 3 HEARD CALLING.
HOUSE WREN - 1 (CARRYING STICK IN BILL)
BEWICK WREN - 1 (SEEN + HEARD SINGING)
(RUSSET-BACKED?) THRUSH - 3 (2 CALLING + 1 SEEN GIVING "WHIT" NOTE. EYERING BROWNISH, PROBABLY RUSSET-BACKED THRUSH SONG - VERY LIKE, GOING UPWARDS)
SOLITARY VIREO - 1 (+ 2 MORE?)
ORANGE-CR'D WARBLER - 4 (SEEN + HEARD)
NBIRD. * TOWNSEND'S WARBLER - 1
TOLMIE " - 2 (MAYBE 1 OR 2 MORE)
PILEOLATED " - 4 (AT LEAST)
COM. COWBIRD - 1 ♂, 1 ♀
* WEST. TANAGER - 1 ♂
BLACK HEADED GROSBEAK - 6 (4 ♂♂, 2 ♀♀)
LINNET - 10
PINE SISKIN - 1
AMER. GOLDFINCH - 25±
BROWN TOWHEE - 3
SPOTTED TOWHEE - 2
SONG SPARROW - 5

MAY 6 POINT ISABEL, CONTRA COSTA CO., CALIF.

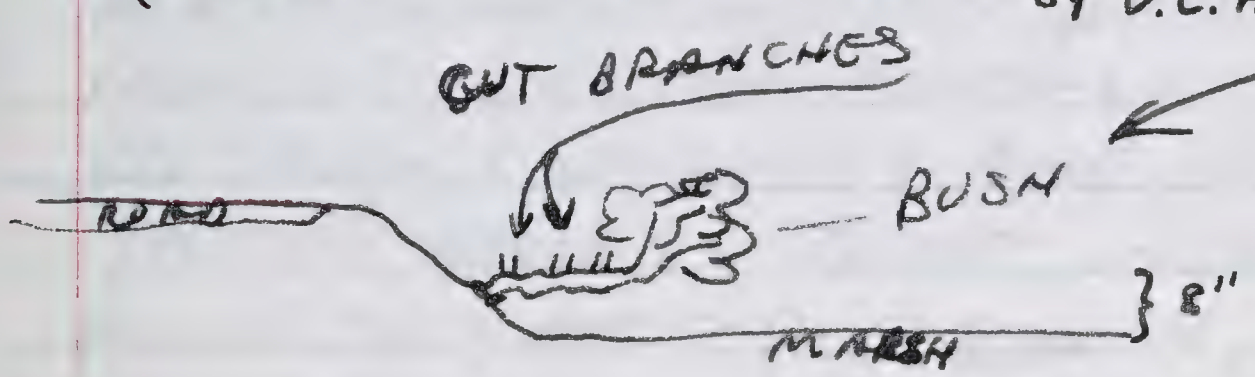
SET OUT 49 MVS. SPEC'S + 2 RIFT TRAPS IN MARSH (MOSTLY ALONG N, OTHER BORDER OF MARSH + NW ROAD) BETWEEN SHEET RANGE + NW ROAD. GOT 5 MICROTUS ONLY

K. ZIEGLER
1956

JOURNAL

MAY 6 CONT POINT ISABEL CONTRA COSTA CO, CALIF
LIGHT RAIN WHEN SETTING OUT TRAPS LAST PM AT 7:30 PM. AND PROBABLY VERY LIGHT RAIN DURING NIGHT. RAN TRAPS 8:30 AM. SET OUT 5 TRAPS AROUND A BUSH (A COMPOSITE-COLLECTORS FOR IDENT.) WHICH SHOWED SMALL BRANCHES ~~SAT~~ GNAWED OFF ON IT. A FEW OF THE BRANCHES FOUND ON GROUND IN RUNS LEADING PAST BUSH. ~~FUNG~~ STUBS 2 TO 5 mm

(IDENTIFIED AS GRINDELIA CAMPORUM DAVYI, BY U.C. HERBARIUM)



BUSH SHOWING CUT-OFF BRANCHES.

IN DIAMETER. 2 OTHER BUSHES WITHIN 4 FT. SHOWED CUT-OFF BRANCHES ALSO. ALL 3 BUSHES HAD TWIGS CUT OFF ONLY ON THE HORIZONTAL MAIN STEMS — OTHER BUSHES GROWING UPRIGHT FROM BASE DID NOT SHOW CUTTING. GOOD STAND OF FRESH-GROWING SMALL CORONA WITHIN 5 FT. OF BUSHES. AND FAIR STAND OF GRASS (FESTUCA PROBABLY) 12 FT AWAY SO USE OF THE BUSH FOR FOOD(?) PROBABLY NOT FROM NECESSITY. WHEN I LOOKED MORE CLOSELY AROUND THE SLOPE BETW. ROAD AND MARSH I FOUND SEVERAL OTHER BUSHES (SAME SPECIES) HAD BEEN TRIMMED

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MAY 6 (CONT) POINT ISABEL CONTRA COSTA CO., CALIF

TO SOME EXTENT BUT NEW WEBS WERE SHOOTING UP AGAIN FROM OLD STUBS. RUNS IN VICINITY OF 1ST BUSH WERE OPEN IN PLACES & RUNNING UNDER THICK MATS OF DEAD GRASS IN OTHER PLACES. FOUND 1 INCH LONG TIPS & SECTIONS OF THIS BUSH TWIGS UNDER A 4" WIDE PIECE OF DRIFTWOOD LYING ~~NEAR~~ UNDER THE BUSH. RUNS ALSO SHOWED MICROTUS-SIZED DROPPINGS ON FLOORS.

A DEAD MICROTUS PLACED ON ONE MAIN BRANCH WHICH RAN OUT MORE OR LESS HORIZONTALLY & SHOWED SEVERAL CUT STUBS AND WAS 8 MM THICK, BARELY BENT UNDER WT. OF MOUSE EVEN AT TIP OF BRANCH, SO THE MICROTUS WOULDN'T BE TOO BIG TO GET OUT THERE TO CUT THE TWIGS.

NONE OF THE STUBS SEEN WERE MORE THAN 1 FOOT OFF OF GROUND ALTHO BUSHES WERE UP TO 3' TALL. 8 TRAPS SET AROUND A LARGE SECTION OF WHARF LYING IN MARSH WERE UNSPRUNG — HARD THOUGHT SOMETHING MIGHT BE USING THE SPACE OF 3 OR 4 INCHES OPEN BENEATH THE LARGE BOARDS. PICKED UP A SKULL OF RATTUS FROM OLD SKELETON & SCREDS OF FUR & SKIN ON EDGE OF MARSH BESIDE NW ROAD. FUR ALMOST YELLOW-BROWN COLOR. SKULL APPARENTLY HAD WEATHERED FOR SOME TIME AS TEETH FELL OUT EASILY. (RATTUS NORVEGICUS)

PHOTOS VIEW OF MARSH TODAY

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MAY 6 (CONT.)

POINT ISABEL, CONTRA COSTA CO., CALIFORNIA

SALICORNIA MARSH AT POINT ISABEL
LOOKING NORTH FROM ROAD OUT ONTO POINT.

(2 MORE PHOTOS IN ZOO. 113 CLASS REPORT)

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MAY 12 WILDCAT CANYON, CONTRA COSTA CO., CALIF.
8:20 AM – 12:00 NOON. WARM, CLEAR, MODERATE WIND. NO RAIN FOR PAST 3024 DAYS. REPTILE TRIP - 200 113 CLASS. WALKED UP MEADOWS CANYON TRAIL. FOR ABOUT A QUARTER MILE THEN WENT N UPHILL TO RIM OF CANYON. ROAD HERE (MAYBE ADM. NIMITZ HIWAY??) CIRCLING CANYON RIM. WALKED SIDES OF ROAD + SLOPES FOR HERPS. LOCALITY ABOUT 1 MI. NE OF TENNIS COURTS NEXT TO WATER COMPANY (FENCED OFF) PROPERTY. VEGETATION MOSTLY 1½ FT HIGH GRASS (WILD OATS?) + A FEW SCATTERED PINES. TURNED OVER MANY ROCKS ALSO.
BIRDS SEEN OR HEARD -
TURKEY VULTURE - 2
? HAWK - 2
CALIF QUAIL - 1+ (COW-CALLING)
BAND-TAILED PIGEON - 4 (TOPS OF PINES ON RIM)
MOURNING DOVE - 2
(OR HORNED?) OWL - 1 (SEEN IN FLIGHT AT 9:00 AM)
VIOLET GREEN SWALLOW - 5 (ON RIM)
? HUMMINGBIRD - 3
OLIVE-SIDED FLYCATCHER - 1+ (CALLING)
STELLER'S JAY - 1
BUSH-TIT - 4
WREN-TIT - 1+ (CALLING)
CEDAR WAXWING - 8+ (FLOCK)
W. MEADOWLARK - 1+ (CALLING)
LAZULI BUNTING - 4 (ALL SINGLE ♂'S SINGING FROM TOP OF COWLUM STANDS ON MEADOWS CANYON TRAIL | SONG LIKE ENGINE BUNTING

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MAY 12 (CONT) WILLOCKET CANYON, CONTRA COSTA CO., CALIF.

(HOUSE OR PURPLE ??) FINCH - 5+
AMERICAN GOLDFINCH - 15+
SONG SPARROW - 3
LIZARDS - SCELOPORUS OCCIDENTALIS - 5
GERRHONOTUS MULTICARINATUS - 2
(BOTH COLLECTED FOR DESCRIPTION)
((RUBBER BOA CAUGHT YESTERDAY BY ONE GROUP, IN WOODS UNDER LOG))
DIADOPHIS AMABILIS - 1 (+1 BY ANOTHER GROUP)
((MASTICOPHIS LATERALIS (MAYBE?) SEEN BY ANOTHER GROUP)
PITUOPHIS CATENIFER - 2 (LARGE)
THAMNOPHIS ELEGANS (TERRESTRIS?) - 3
((1 GROUP GOT T. E. ATRATUS DOWN AT JEWELL LAKE))
((ALSO RATTLESNAKE (SPP.??) CAUGHT YESTERDAY.)) GROUPS ALSO TURTLES OUT AT LAKE ALSO. WE FOUND 2 ADULT ANELIDES LUBRICUS UNDER ROCKS IN GRASS ON RIM ALSO 1 SMALL TRICHA TOROSA + BATRACHOSEPS ATTENUATUS. SAW ALSO ABOUT 5 SMALL (ABOUT 1½ TO 2 IN TOTAL LENGTH) YOUNG ANELIDES LUBRICUS ALSO UNDER ROCKS. SAW A SMALL LIGHT-BROWN MOUSE COME OUT OF PILE OF DRY GRASS IN CLEARING IN GRASS FIELD. PILE LOOKED LIKE OLD HARVEST MOUSE NEST BUT WAS WEATHERED ON GROUND. MOUSE HAD VERY SHORT HAIR, MICROTUS EARS CLEARLY VISIBLE ON SIDES OF HEAD (NOT STICKING UP TOO MUCH TOO) THRU OROVER SHORT HAIR. TAIL ABOUT 1 IN LONG, BODY ABOUT 2 INCHES OR A LITTLE LESS LONG. MANY GOPHER MOUNDS SEEN ON RIM.

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MAY 15 LeConte & LaLoma St., Berkeley, Alameda Co., Calif.

FRED TURNER, A GRAD. STUDENT IN HERPS & 200 106 & 113 T.A. BROUGHT IN A DEAD ♀ SCIURUS NIGER FOUND ON STREET, HAD 1 FORELIMB BONE BROKEN — MAYBE HIT BY CAR YESTERDAY. 4 ~~CAPS~~ SCARS — ONE ON LEFT SIDE. PUT UP AS SPECIMEN.

½ MI. W GRIZZLY PEAK, OAKLAND, ALAMEDA CO. CALIF

MAY 17 VIC LEWIN GRUENE & CALIF. JAY CAUGHT IN ~~ON~~ WAIN TRAPS SET ABOVE STRAWBERRY CANYON. BIRD HAD BLOOD ON SIDES OF BEAK & SOLES OF TOES — LOOKED AS IF IT HAD EATEN SOME OTHER BIRD IN TRAP BUT VIC DIDN'T SAY ANYTHING ABOUT THE OTHER BIRD. PUT UP AS SPECIMEN.

MAY 19 WILDCAT CANYON, CONTRA COSTA CO. CALIF.

8:15 AM — 11:30 AM. COOL, MOSTLY OVERCAST, FAIRLY STRONG WIND. BIRD TRIP WITH 200 113 CLASS. WORKED PICNIC GROVES, HILLSIDE & EUCAL. WOODS. PICKED UP OWL PELLETS (HORNED OWL??) + COPMERS NAME, TARICHA TOROSA BOTTLEHOSCAPS, ETC. 1 OWL PELLET SHOWED SMALL MAMMAL & ANOTHER FAIRLY FRESH ONE & MORE (?) SKULL (SAVED.) BIRDS SEEN OR HEARD:

CAL. QUAIL — 3
HORNED OWL — 1 YOUNG COLLECTED BY J. BURNS
? HUMMINGBIRD — 5
DOWNY W'PECKER — 1
OLIVE SIDED FLY CATCHER — 1 (CALLING)
STELLER'S JAY — 5

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MAY 19 (CONT) W. WILDCAT CANYON, CONTRA COSTA CO., CALIF.

SCRUB JAY. — 3
C. B. CHICKADEE - 8
PLAIN TITMOUSE - 1(?) CALLING
BUSH TIT - 2
WREN TIT - 2 (CALLING.
ROBIN - 8
SWAINSON THRUSH - 2 (NONE CALLING)
CEDAR WAXWING - 50 (3 FLOCKS)
SOLITARY VIREO - 1 (SEEN)
WARBLING VIREO - 2
ORANGE-CR'D WARBLER - 2
PILEOLATED WARBLER (?) - 1 (CALLING.
W. MEADOWLARK - 1
BL. HEADED GROSBEAK - 6+ (2 NESTS)
LAZULI BUNTING - 10+
AMER GOLDFINCH - 5±
BROWN TOWHEE - 8
OREGON JUNCO - 5
SONG SPARROW - 3

MAY 24 STRAWBERRY CANYON, ALAMEDA CO., CALIF.

WALKED AROUND FIRE ROAD ~~WAY~~ 3/4 WAY UP SIDES OF CANYON FROM 9:00 AM TO 11:00 AM. ALSO WALKED A FEW FIELDS + WOODED AREAS (EUCALYP. + PINES) TURNING OVER ROCKS, LOGS ETC IN THE FIELDS + WOODS. VERY SLIGHT WIND, HOT + CLEAR. GOT ABOUT 7 THAMNOPHIS (ELEGANS?) ALONG ROAD EDGES + 5 MORE OUT ALONG. GOT 2 DIADOPHIS AMABILIS UNDER ROCKS, 2 BERYHONOTUS MULTICARINATUS, 1 PITUOPHIS CATENIFER + 1 RATTLESNAKE (ALL ALONG ROAD BORDER EXCEPT DIADOPHIS

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MAR 24 (CONT) STRAWBERRY CANYON, ALAMEDA CO., CALIF.

WHICH WERE UNDER ROCKS IN FIELD. ALSO SAW SEVERAL BATTLESNAKES. ALL SNAKES GIVEN TO TERRY COOK WHO WORKS IN HERP LABS IN MVZ. I THINK HE WILL SEND THEM BACK EAST TO SOME SUPPLY DEALER. MAYBE 2 THAMNOPHIS WILL GO TO ZWEIFEL (THRU ERNIE KARLSTROM) FOR SOME MUSEUM EXHIBIT. 3 OF THE THAMNOPHIS COUNT FIND A SECOND ONE COILED BESIDE THEM (IN 1 CASE) OR WITHIN A FOOT OR 2 AWAY. 1 THAMNOPHIS HAD RECOVERED TO A HALF-GONE (DIGESTED??) WOOD RAT WITH FLY EGGS ON HEAD & SHOULDER FUR. WHEN BAG WAS DUMPED OUT BACK IN MVZ. I HAD FELT THE RATTLER LARGE SKULL IN SNAKE WHEN COUNT & IT SEEMED TO HAVE BEEN SWALLOWED TAIL FIRST. THERE WAS SOME TALK ABOUT THE WOOD RAT (MAYBE ABOUT HALF-GROWN) HAVING BEEN DEAD & ALREADY PARTLY EATEN BY SOMETHING WHEN FOUND BY THE SNAKE & SWALLOWED. RATTLER WAS ABOUT 10" LONG - FOUND COILED IN SHORT GRASS BESIDE ROAD ~~4 MI W CASTRO VALLEY, ALAMEDA CO., CALIF~~

MAR 24 (CONT.) VIC LEWIN COUNT A THAMNOPHIS IN QUAIL TRAP NEAR FIRE ROAD & GAVE IT TO ME TO STUFF. WILL PUT IT IN MVZ WHEN COMPLETED.

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MAY 26 M.V.Z., BERKELEY, ALAMEDA CO., CALIF
GOT 20-30 BATS (MACROTUS CALIFORNICUS ?) FROM PRENTICE BLOEDEN A GRAD. STUDENT IN MVZ WORKING ON BATS. THESE WERE COLLECTED, ACC. TO PRENTICE, 17 MI. SW RED ROCK, PIMA CO., ARIZONA ON JAN. 30, 1956. THIS LOCATION IS 5 MI. W OF CLAFLIN RANCH, PIMA CO., BATS IN DEEP FREEZE SO WILL TAKE THEM OUT A FEW AT A TIME TO PREPARE THEM.

MAY 28 ½ MI. W GRIZZLY PEAK, OAKLAND, ALAMEDA CO., CALIF.
VIC LEWIN GAVE ME A CALIF. THRASHER CAUGHT IN QUAIL TRAP NEAR FIRE ROAD ON SLOPE OF STRAWBERRY CANYON. PUT UP AS SPECIMEN.

MAY 29 SAN PABLO RIDGE, CONTRA COSTA CO., CALIF.
RALPH RATT GAVE ME A SCRUB JAY CAUGHT IN QUAIL TRAP FROM ON HIS STUDY AREA NOT FAR (≈ ½ MILE EAST OF) BERKELEY. PUT UP AS SPECIMEN. BIRD TAKEN MAY, 25, 1956

JUNE 2 STRAWBERRY CANYON, OAKLAND, ALAMEDA CO., CALIF.
HIKED AROUND FIRE ROAD & IN EVERGREEN WOODS FROM 9:30 AM TO 1:00 PM. HOT, CALM & CLEAR. SAW ONLY 1 SKINK - ELGARIA MULTICARINATA UNDER ROCK. CAUGHT & RELEASED A FEW SCAPHIOPUS & COLLECTED 1 SOPHIS & EARWIGS FOR LIZARDS AT HOME. GOT 2 LARGE YELLOWISH-BROWN SNUBS IN REDWOODS ALONG STREAM - GAVE THEM TO

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STRAWBERRY CANYON, OAKLAND, ALAMEDA CO., CALIF.

JUNE 2 (CONT.) ERNIE KARLSTROM TO SOND TO ZWEIFEL AT AMER. MUSEUM. BIRDS:
REDTAILED HAWK - 1
CAN QUAIL - 2 (SOW CANNING)
MOURNING DOVE - 4
— HUMMINGBIRD - 4
DOWNY W'PECKER - 1 (CANNING)
OLIVE-SIDED F'CATCHER - 1 (CANNING)
ORANGE CR'D WARBLER - 1 (SINGING)
COWBIRD - 1+ (CANNING)
SPOTTED TOWHEE - 2
BROWN TOWHEE - 6
SONG SPARROW - 1
ALSO AT L.S. BLDG ON U.C. CAMPUS SAW A PURPLE OR HOUSE FINCH SINGING (WARBLING SONG) BUT BIRD WAS STRIPED BROWN & WHITE WITH BROAD WHITE SUPERCILIARY LINE. MUST HAVE BEEN BIRD STILL IN POST JUVENAL PLUMAGE?

JUNE 2 (CONT.) (17 MI. SW RED ROCK (PINAL CO.), PIMA CO., ARIZ.)
PUT UP 4 MORE OF PRENTICE BLODGETT'S FROZEN MACROTUS (SEE DATA MAY 26, 1956 & THIS JOURNAL)

JUNE 5 OAKLAND (LEONA PARK), ALAMEDA CO., CALIF.
HIKE WITH JOHN LAWRENCE 9:00 AM - 1:00 P.M. LOOKING FOR BIRDS & HERPS. CLEAR, HOT, VERY SLIGHT WIND. JOHN CAUGHT 1 DIADOPHIS AMABILIS + 1 THAMNOPHIS ELEGANS. WE ALSO SAW 2 EUMECES SKILTONIANUS, 1 OPHRYOTOXUS MULTICARINATUS, MANY SCELOPORUS OCCIDENTALIS + 3 COLUBER CONSTRICTOR

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JUNE 5 (CONT)

OAKLAND (LEONA PARK), ALAMEDA CO., CALIF.:
THESE LAST 3 WE COULDN'T CATCH IN A GRASSY MEADOW. ALSO FOUND AN ENSATINA ESCH. + 2 ANEIDES LUGUBRIS. SAWED, EUMECES + THE THAMNOPHIS. FOUND YOUNG MICROTUS (?) SQUEAKING IN GRASS. EYES NOT OPEN YET BUT FAIRLY WELL HAIRED. PLACES WORKED WERE MOSTLY MEADOWS WITH 1'-1½' GRASS (TURNING OVER ROCKS HERE, ALSO) AND SOME TRAILS THRU WOODS. SAW 2 (+1?) PROCYON LOTOR CLIMBING UP OUTER(!) BRANCHES OF TREE 6' OFF OF GROUND FROM LOWER BUSHES APPARENTLY; THEN WALKING DOWN STOPPING TRUNK INTO UNDERBRUSH. BIRDS!

RESTAINED HAWK — 1
SPARROW " — 1
CAL. QUAIL — 4+ (SOME CALLING.)
MOURNING DOVE — 3
? HUM'BIRD — 2
FLICKER — 1
DOWNY W'PECKER — 1 (CALLING)
* ASH TH'R FLYCATCHER — 1 (NEW BIRD)!
(?) UNID. KING-BIRD-LIKE FLY-CATCHER; NOTE — SOMETHING LIKE P-WIT BUT DIRTY WHITE BENEATH + NO RUFOUS TAIL — BUT NEVER GOT REAL GOOD LOOK OF BIRD —)
? SWALLOW (CHIPP?) — 4
SCRUB JAY — 2
BUSH TIT — 2
R'BREASTED N'HATCH — 1 (CALLING)
WREN-TIT — 1+ (CALLING)

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JUNE 5 (CONT) OAKLAND (LEONA PARK), ALAMEDA CO., CALIF.

CAL. THRASHER — 1 (CALLING)
SWAINSON'S THRUSH — 1 (+1?) (SINGING)
WARBLING VIREO(?) — 1 (SINGING)
PILEOLATED WARBLER — 2 (SINGING)
W. MEADOWLARK — 4
COWBIRD — 1 (CALLING)
HOUSE FINCH (OR PURPLE?) — 4
ARKANSAS GOLDFINCH — 1 ♂
SPOTTED TOWHEE — 4
BROWN TOWHEE — 4
(LARK SPARROW ?? — WHITE OUTER TAIL FEATHERS SEEN IN QUICK LOOK AT 3 ON STEEP DRY HILLSIDE IN BRAMBLES BUSHES)
RUFOUS CR'D SPARROW — 2 ADULTS + 2 BOB-TAILED (BUT FLYING A LITTLE) YOUNG,
OREGON JUNCO — 3 (1 SINGING)
SONG SPARROW — 5
L'HEAD SHRIKE — 1 (ON TELE. LINE ON ROAD)

JUNE 10 CORRAL HOLLOW, ALAMEDA & SAN JOAQUIN CO., CALIF.

DROVE + WALKED HOLLOW FROM ABOUT 3:00 PM JUNE 10 TILL 4:00 AM JUNE 11 WITH JOHN LAWRENCE. GOT 2 DIPODOMYS IN BUTTERFLY NET ALONG ROADS + ALSO 1 PEROGNATHUS. SAW ABOUT 6 MORE DIPO'S + 2 MORE PEROG. RUNNING IN OR BESIDE ROAD. SET OUT 49 MUS. SPECIMEN TRAPS & GOT 1 PEROMYSCUS MANICULATUS & 1 DIPODOMYS HEERMANNI (FROM 10 PM TO 12 MIDNIGHT). DROVE ROAD 3 ROUND TRIPS BUT SAW ONLY 1 ROAD RUNNER, 1 DEAD PITUOPHIS

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JUNE 10 (CONT.) CORRAL HOLLOW, ALAMEDA + SAN JOAQUIN COS, CALIF.,
CAJENIFER. MANY CITELLUS (BECHEYI) + BURROWS IN HOLLOW. HERPS SEEN: BUFO BOREAS — HUNDREDS OF 3/4 INCH-LONG YOUNG IN "SHEEP TANK" (1.5 MI. E OF COUNTY LINE). 2 ADULTS IN AMPLEXUS
SCAPIOPUS HAMMONDI — 2 LARGE TADS WITH LEGS IN COTTONWOOD WOOD STREAM NEAR RANGER STATION.
HYLA REGILLA — COUL'D 10 SMALL + 1 LARGE IN SAME COTTONWOOD STREAM.
RANA CATESBIANA — 3 OR 4 LARGE TADS OR "TAINED" FROGS COUL'D IN SHEEP TANK.
ETUOPHIS CAJENIFER — 1 IN HOLLOW ~~DEAD~~ DAY + 3 MORE DAY, TOWARD LIVERMORE (OUT OF CANYON.)
LAMPROPELTIS GETULUS — 1 DAY IN HOLLOW — FRESHLY KILLED.
MAMMALS —
URSOCYON ~~CINEREOARGENTEUS~~ 1 ON ROAD ABOVE HOLLOW TOWARD LIVERMORE
MEPHITIS MEPHITIS — DITTO (BOTH ABOUT 3 OR 4 AM.)
CITELLUS BECHEYI — 100±
DIPODOMYS HEERMANNI + PEROGNATHUS ~~BOLMANI~~ ~~AS ABOVE~~ ALONG ROADS, (SEE ABOVE)
PEROMYSCUS MANICULATUS — 1 TRAPPED.
BIRDS: TURKEY VULTURE — 6 OUTSIDE HOLLOW, 1 INSIDE.
MARSH HAWK — 1
CALIF. QUAIL — 2
KILLDEER — 6+
MOURNING DOVE — 8±
RED SH'D BLACKBIRD — 1 (DEAD)

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JUNE 10 (CONT) CORRAL HOLLOW, ALAMEDA & SAN JOAQUIN CO., CALIF.

* LEWIS' W'PECKER - 2
WEST. KINGBIRD - 10± (IN & OUT OF HOLLOW)
(CLIFF ??) SWALLOW - 10± (IN CLIFFS NEAR RANGER STATION)
W. MEADOWLARK. - 8
* (BULLOCK'S ORIOLE - ♂ & ♀ - OUTSIDE HOLLOW)
BREWER'S BL'BIRD - 10
(HOUSE ?) FINCH - 3 OUT OF HOLLOW
YEL. BILLED (??) MAGPIE - 2 OR 3
LOGGERHEAD (?) SHRIKE - AT LEAST 8 IN HOLLOW
4 TO 6 OUTSIDE. - MANY IN PAIRS.

— HERPS (CONT.) ALSO COUNT 3
UTA STANSBURIANA & SAN MARCOS
6 TO 8 MORE.
SCELOPORUS OCCIDENTALIS - 1 - BESIDE ROAD IN COTTONWOOD WOODS AT E. END OF HOLLOW. LIZ'S SAID PHRYNOSOMA CORONATUM & CNEMIDOPHORUS WERE ALSO TAKEN HERE RECENTLY BUT WE DIDN'T SEE EITHER IN QUITE A BIT OF SAND WANDERING. RHYNOCHEILUS & ARIZONA WERE ALSO FOUND ON ROADS RECENTLY BY HERP COLLECTORS.

JUNE 15 6 MI. W WESTLEY, (INGRAM CANYON), STANISLAUS CO., CALIF.
LEFT L.S.B. AT ABOUT 1:30 PM FOR JERRY COOK'S HOUSE WITH ELBERT BECK. SAW JERRY'S MENAGERIE & LEFT FOR INGRAM CANYON BY WAY OF CORRAL HOLLOW AT ABOUT 3:00 P.M. IN CORRAL HOLLOW CHECKED CAMP ABOUT ½ MI SOUTH OF TESLA ROAD 1.7 MI EAST OF ALAMEDA-SAN JOAQUIN COUNTY LINE. DROVE HALF WAY TO OLD MINE CAMP & WALKED UP DRAW REST OF WAY. SAW CNEMIDOPHORUS ON DRAW

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JUNE 15 (CONT) 6 MI. W. WESTLEY, (INGRAM CANYON) ~~STANISLAUS CO.~~ SHOT ALSO ~~ALL~~ 2 SYLVILAGUS AUDUBONI + A MOURNING DOVE'S NEST WITH 3 EGGS ON GROUND. IN CAVE FOUND WOODRATS' NESTS + NETTED A CORYNORHINUS. DROVE TO INGRAM CANYON + RODE TO CAMP AT RANCH HOUSE AT END OF ROAD — GIRL THERE SAID NO SO HARD TO CAMP BACK DOWN ROAD OUTSIDE OF CATTLE GRAZING RANGE (IN SHEEP GRAZING RANGE.) SAW SEVERAL SYL. AUDUBONI ~~[illegible]~~ I SET 60 MUS SPEC'S. WITH MIXTURE OF P. BUTTER, WALNUTS, WHOLE CORN MEAL + BIRD SEED. ALSO SET 4 SHERMAN LIVE TRAPS + 7 LARGE LIVE TRAPS (4 BAITED WITH DEAD LAB MICE + 3 WITH BIRD SEED + WALNUTS. — THE 4 WITH MICE ALL SHOW MOVING STREAM). CANYON WAS MOSTLY OVER-GRAZED GRASS + SAGE WITH SOME SORT OF DRIPPING NEAR CREEK, THERE WAS ALSO FAIRLY THICK FOOT-HIGH GRASS SCATTERED AMONG PARTS OF STREAM + IN BOGGY GROUND BESIDE IT. ALSO SET OUT 8 SHERMAN LIVE TRAPS IN THIS GRASS ~~OUTSIDE~~ IN SHEEP GRAZING SECTION, THE SNAP TRAPS WERE ALL SET UNDER + BETWEEN SAGE BUSHES ON A NORTH FACING SLOPE ABOUT 20-30 FT. APART. DROVE THE ROAD AT NIGHT TIL 11:00 PM. MOON HIGH ALL THIS TIME — SAW ONLY TOADS

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JUNE 15 (CONT) 6 MI. W. WESTLEY, ~~(INGRAM CANYON)~~, STANISLAUS CO., CALIF.

LEPUS & SYLVILAGUS. ALSO 1 GOATSUCKER SITTING ALMOST INVISIBLY ALONG COW DROPPINGS. COULD SEE REDDISH EYESHINE THO. — TRIED TO BUTTERFLY-NET IT BUT IT FLEW. SAW IT 20 MIN LATER IN SAME SPOT.

J. COOK & BROCK SHOT AT BATS AT DUSK BUT GOT ONLY 1 PIPESTRELLE.

SAW MAYBE 10 OTHERS CIRCLING MEADOWS - MOSTLY SMALL BUT 2 LARGER. NO MORE SEEN AFTER IT WAS NEARLY DARK. MANY CITELLUS BEECHEYI SEEN DURING DAY BUT NEARLY ALL WERE IN HOLES BY TIME SUN HAD GONE BEHIND CANYON RIM. MANY DIFFERENT SIZES OF GROUND SQUIRRELS - MOSTLY SMALL. BIRDS SEEN OR HEARD IN CANYON.

TURKEY VULTURE - 2
RED TAILED H. - 1
CAL. QUAIL - 8
KILLDEER - 1 (NEAR CANYON)
? OWL - 2 LARGE ONE FLYING OVER AT DUSK
MOURNING DOVE - 10
(GOATSUCKER) - 1
? HUMMINGBIRD - 1
? SWALLOW (CliFF?) - 3
SCRUB JAY - 1
(ROCK WREN?? REC. TO J. COOK) - 2
W. MEADOWLARK - 5
BULLOCK'S ORIOLE - 2 (♀ + ♂)
BROWER'S B' BIRD - 10
COW BIRD - 10

WINNET(?) - 10
BR. TOWHEE - 8
LARK SPARROW?? - 5

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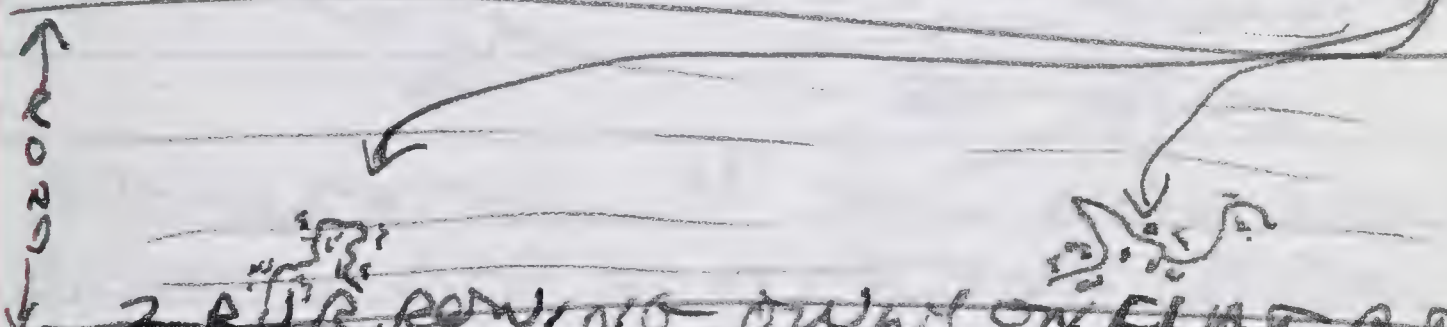
JUNE 16 6 MI. W WESTLEY, (INGRAM CANYON), STANISLAUS CO. CALIF.

CAMPED LAST NIGHT IN SHEEP GRAZING AREA - UPPER, TO RUN TRAPS. GOT ONLY 2 PEROMY. MANICULATUS + 3 OTHER TRAPS NEAR ROADSPRING. (J. COOK + BROCK TRAPPING) IN STREAM BEDS GOT 4 PEROMY. MANICULATUS, 1 DIPODOMYS HEERMANNI, 1 PEROMYSCUS (BOYLEI OR TRUEI?) + 1 REITHRODONTOMYS MUS). NOTHING IN ANY OF OUR LIVE TRAPS! SAW DIPODOMYS (PROBABLY) TRACKS ON ROAD DUST.



~~2 BUR. ROWING DOWN ON ELM~~ AS ABOUT 10:AM DROVE ON TO PATTERSON THEN OUT SPERRY RD TO DEN PUERTO ROAD THEN ON TO SAN ANTONIO VALLEY ROAD TO MINES ROAD + HOME ABOUT 4:00 PM. ALONG DEN PUERTO ROAD CHECKED CAVES + OLD MINES BUT SAW ONLY 1 LARGE DIRT IN ONE BESIDE ROAD. IT GOT AWAY. THO. DROVE UP TO SOME MINING OPERATION + TALKED TO THE CARETAKER (A MR McPETE (?)). HE SAID WE COULDN'T GO IN MINES BUT NIDSON JIMMY SHONEOUS OLD BUNKHOUSES WHERE WE FOUND ABOUT 10 ANNOTOUS 1 TADARIDA + HARS EPTESICUS BETWEEN WALLS. SEVERAL OTHERS GOT AWAY. PEOPLE THERE SAID THE TCAVOUT

WESTLEY
MINE
3 MI.
E SANTOSE
SANTA CLARA CO.

H.C. ZIEGLER
1956

JOURNAL

JUNE 16 (CONT.) 6 MI. W WESTLEY (INGRAM CANYON), STANISLAUS CO. CALIF.
RATTLESNAKES OFTEN ON ROADS & AROUND BUILDINGS. ALSO SAID THEY GOT A LARGE "KINGSNAKE" SOME TIME BEFORE. MANY SCELOPORUS AROUND & JERRY SAW CNEMIDOPHORUS I THINK. (HE SAW ANOTHER OF SAME KIND ALONG DEL PUERTO ROAD). JIMMY SAID HE HAD A HORNED TOAD BEFORE ALSO. HE GAVE US 2 SCELOPORUS - 1 WITH A DOUBLE TAIL

APPARENTLY 1ST TAIL HAD BEEN BROKEN OFF & NEW ONE GREW IN ABOVE IT. HE ALSO FOUND AN INDIAN PESTLE & GAVE IT TO ME — THEY SAID MANY RELICS WERE DUG UP OR FOUND FROM TIME TO TIME - INCLUDING SKELETONS & SKULLS IN BURIAL GROUNDS. MINES PRODUCED MAGNESITE - (WHITE ROCK USED IN PRECELAIN APPARENTLY) ALONG EITHER SAN ANTONIO OR MINES ROAD FOUND COMMON CONSTRICTOR MORMON ABOUT 20" LONG D.O.R. ALSO PHILOPHILS CATENIFER AGR. W. PECKER. ON DEL PUERTO ROAD SAW MANY CITELLUS BECHEYI HEARD A SCREECH OWL (~~~~~) CANNING. RACCOON, SKUNK, POSSUM & CATS SEEN DEAD ALONG THE ROADS DRIVEN.

G. ZIEGLER
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JUNE 17 1 MI. SE INVERNESS MARIN CO., CALIF.

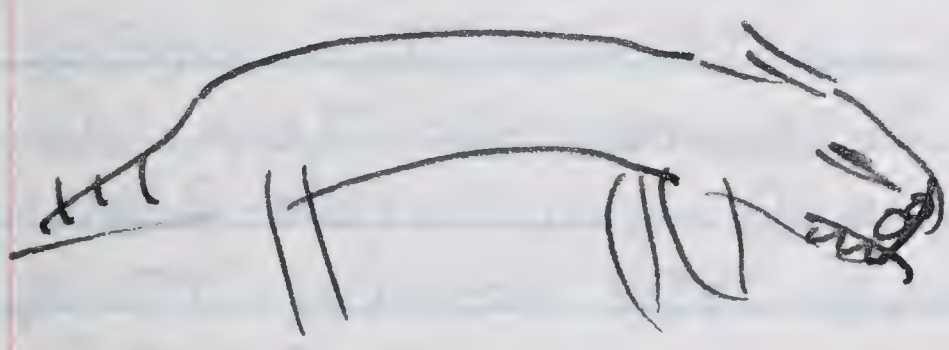
PIT UP (ON JUNE 18) THOMOMYS CAUGHT BY DR S.B. BENSON ON JUNE 17, 1956. FOR MVZ.

DECEMBER
1956

JOURNAL

JUNE 21 903 GLEN COURT, ALBANY, Alameda Co. CALIF.

AT 10:30 PM I PICKED UP A SLEEPING PHRYNOSOMA CORONATUM WHICH I HAVE KEPT CAPTIVE FOR ABOUT 3 MONTHS. THE LIZARD WAS SLEEPING ON TOP OF SAND RAISED HIGH ON LEGS WITH BODY VERY NARROW & BACK ARCHED. I PICKED



IT UP BY THE SIDES OF THE BELLY & IT GAVE A FEW KICKS WITH LEGS A MOMENT LATER BUT COULD NOT SCRATCH MY 2 FINGERS HOLDING IT UP ON EITHER SIDE. THIS WENT ON FOR A SECOND OR 2 & THEN BLOOD SPURTED OUT OF WHAT SEEMED TO BE THE FORWARD CORNERS OF EYES. THE LIZARD WAS BEING HELD JUST A FRACTION OF AN INCH ABOVE THE SAND & WAS DROPPED WHEN BLOOD CAME OUT OF EYES. DROPLETS OF BLOOD SPATTERED ~~[illegible]~~ LEFT TERRARIUM SIDE UP TO 7 INCHES & APPROX. 10° FROM LONG. AXIS OF ANIMAL. SEVERAL DROPLETS WERE FOUND ON REFLECTOR TOP OF AQUARIUM 9" ABOVE SAND & ABOVE ANIMAL AND. BUT THESE MIGHT HAVE BEEN DIRECTED UPWARD AS I HELD THE LIZARD

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JUNE 21 903 GILL COURT, ALBANY, ALAMEDA CO., CALIF.
(CONT) SLIGHTLY TILTED. DROPLETS WERE SEEN ON REAR GLASS ALMOST 120° FROM LONG AXIS OF LIZARD. THE LIZARD WAS ~~PICKED UP~~ BEING HELD AT START OF TIME OF SPURTING AS I SAID SO THESE TWO L'S MIGHT COVER SLIGHTLY MORE OF AN ARC THAN IF IT HAD BEEN SITTING STILL ON SAND. I DO NOT REMEMBER IF THE HEAD WAS POINTING DOWNWARD OR NOT WHEN THE BLOOD STARTED. AFTER THE INITIAL SPURT, TWO OR THREE OF 6 OR 7 LARGE DROPS OF BLOOD CAME OUT OF EACH EYE & SQUIRTED INTO SAND. THE LIZARD ARCHED, IN BALL, FLATTENED OUT, WABBED, ITS TAIL A FEW TIMES THEN HELD IT & HEAD ARCHED UPWARD JUST AS A TARICHA DEFENSE REACTION. THE BREATHING WAS STOPPED. THE BODY & LIMBS TWITCHED FREQUENTLY & THE TONGUE WAS SLOWLY PROTRUDED & CAUGHT BY THE TIGHTLY CLOSED MOUTH. THE EYES WERE OPEN FOR THE 1ST ½ MINUTE OR SO THEN CLOSED LATER. THE JUVEN ARMY, WHITE COLOR OF BODY APPEARED QUITE YELLOW (NOT THE REDDISH BROWN MENTIONED, THE COLOR FROM JUVENILE AND NOTICED BY MY WIFE WHO JUST CAME HERE

10 REDDISH

H.C. Taylor
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Alameda Co.

JUNE 21 903 Glen Court, Albany, Calif.
(CONT) ROOM. AFTER 5 MINUTES OR SO & AFTER BEING PICKED UP A TIME OR TWO THE LIZARD LOWERED ITS TAIL & WOULD MOVE AWAY FROM A HAND PLACED IN THE CAGE GIVING HISSES & OPENING ITS MOUTH. AT ANY MOVEMENT IN THE REGION PART THE LIZARD WOULD TILT BODY & HEAD SPINES TOWARDS DISTURBANCE & OPEN MOUTH. AT 11:20 PM LIZARD HAD RETURNED TO NORMAL COLOR & WOULD STILL TILT BODY TOWARDS A HAND PUT IN TANK BUT WAS OTHERWISE MUCH AS NORMAL. 4 OR 5 DROPLETS OF BLOOD WERE NOTICED ON BACK OF LIZARD DIRECTLY BACK OF (& 1 INCH FROM) HEAD SPINES BUT THIS MAY HAVE DROPPED FROM MY HANDS OR FROM THE BLOOD PROTECTED UPWARD
3 OR 4 PHOTOS TAKEN BETWEEN 10:40 & 11:00 PM & 1 WHEN COLOR HAD RETURNED AT 11:20 PM.
FROM 11:30 PM TO 11:45 PM (WHEN I QUIT WATCHING) ANIMAL SEEMED UNUSUALLY ACTIVE - BOBBING HEAD, TURNING HEAD, KICKING SAND BACK WITH 2 OR 3 KICKS OF HIND FEET ETC. LOOKED UP QUICKLY AT LIGHT OF CIGARETTE LIGHTER 3' FROM TANK. WOULD NOT TAKE 2 MEALWORMS PUT BEFORE IT IN CAGE.

A.C. ZIEGLER
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JOURNAL

JUNE 21. (CONT) 903 GILL COURT, ALBANY, ALAMEDA CO., CALIFORNIA

1.

1. TAKEN 10:40 P.M. NOTE BLOOD SPOTS ON 3 SIDES OF TANK.

2.

2. TAKEN ABOUT 11:00 P.M.

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JUNE 21.
(CONT)

903 GILL COURT, ALBANY, ALAMEDA CO., CALIFORNIA

3.

TAKEN ABOUT 11:00 P.M.

4.

TAKEN ABOUT 11:00 P.M.

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JUNE 21. (CONT.) 903 GILL COURT, ALBANY, ALAMEDA CO., CALIFORNIA

5.

TAKEN ABOUT 11:00 A.M.

6.

TAKEN 11:20 A.M. – NORMAL COLOR BACK ABAIL.

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MODESTO (CITY LIMITS), STANISLAUS CO., CALIF.

JUNE 27 RICHARD W. RUSSELL DONATED TO MVZ A WEASEL FOUND DEAD ON HIGHWAY (HIT BY CAR?) 7 AM THIS A.M. PUT UP AS SKIN & SKULL (BROKEN)

JULY 1 1 MI. SE INVERNESS, MARIN CO., CALIF.

PUT UP (ON JULY 2) 4 SHREWS CAUGHT BY S. B. BENSON IN TUNNELS FOUND BY DIGGING AT BASE OF BRACKEN CLUMPS. MUS. SPECIALS & WALNUT BRST. 3 TO MVZ, 1 SHREW FOR MG.

JULY 7 CORRAL HOLLOW, ALAMEDA & SAN JOAQUIN CO'S, CALIF.

WALKED HOLLOW 5 AM JULY 7 TO 12:30 AM JULY 8 WITH EDWIN ROSENBLUM & WIFE. COL. GOT 5 SCEPHARUS UNDER WOOD & STONE HEAPS IN WASHES ALSO 2 OR 3 VITA STANBURIANA UNDER ROCKS. SAW 1 LIVESNAKE (MASTICOPHIS LATERALIS?) ON ROAD BUT IT GOT AWAY & INTO HOLE BEFORE I GOT A GOOD LOOK AT IT. FOUND DEAD COLUBER CONSTRICTOR ON ROAD & DEAD RATTLER BESIDE CORRAL FARM BUILDINGS. FOUND 1 PITUOPHIS CATENIFER ON ROAD ABOUT MIDNIGHT (TO JERRY COOK). GOT LARGE LONG-HORNED (?) BULLFROG FLEW INTO CONVERTIBLE. SAW 3 OR 4 DEAD CITELLUS BEECHEYI ON ROAD & 1 DEAD ~~[illegible]~~ MUS FROM 10:30 PM ON WE SAW MAYBE 10 OR 12 D. PO'S ~~[illegible]~~ ON ROAD & CAUGHT 3 WITH NET — ONLY GOT

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OWL? (CONT) CORRAL HOLLOW, ALAMEDA & SAN JOAQUIN CO'S. SAW ONE ♀ TO TRY TO MATE WITH MY ♂ ?. SAW 2 OR 3 PEROGNATHUS?? RUN ACROSS ROAD & 1 TAYLORI TAXUS WALKING ALONG ROAD. ALSO 3 OR 4 LEPUS CALIFORNICUS & 8 OR 10 SYLVILAGUS & 3 ARCOILEUS BURROWING OWLS FLYING & CALLING 100 FT. EAST OF ATOMIC ENERGY COMM. TESTING GROUND GUARD HOUSE. CAUGHT 1 PEROGNATHUS ABOUT 4 MILES OUT OF HOLLOW TOWARDS LIVERMORE. NIGHT DRIVE THE ROAD IN HOLLOW 2 TIMES ROUND TRIP. FROM 9:00 PM TO 12:30 AM. SEVERAL BUFO BOREAS (LITTLE & BIG SEEN ON ROADS & NEXT TO SHEEP POND & 3 OR 4 SCAPHIOPUS ABOUT 1½" LONG ALONG ROADS. I AM SEEN AT 5:30 PM IN OLD BUILDING — MUST HAVE BEEN ONE OF THE MYOTIS. IT CRAWLED BETWEEN ~~CORRUGATED TIN~~ = CORRUGATED TIN ROOF & RAFTERS & HAD TO BE PUSHED OUT BUT THEN IT FLEW OUT OF SIGHT & COULDN'T BE FOUND AGAIN. EVIDENCE OF WOOD RATS (?) IN OLD BUILDINGS — (DROPPINGS, A LITTLE GRASS, ETC) COWS & HORSES GRAZING ON MUCH OF HOLLOW. BIRDS:

TURKEY VULTURE — 2
(ROUGH LEGGED?) HAWK — 1 — WHITE RUMP (NOT HARLAN'S HAWK)
CAN. QUAIL — 2 (or 4 ♀)
MULE DEER — 2 CARCASSES.

PINNATED TAIL & 1 (OTHER) ROOSTING TO GREAT HORNED OWL. OTHER ↗ TO MR. EMERSON & P.O. TO MOC NAT. REC (DEC 2 DAYS HERE)

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JULY 7 (CONT) CORRAL HOLLOW, ALAMEDA & SAN JOAQUIN CO'S, CALIF.

MOURNING DOVE - 4
BURROWING OWL - 2 (AT NIGHT)
POORWILL (?) - 8 (IN GROUP - HOWLING)
WESTERN KINGBIRD - 10
HORNED LARK - 5 (AT SHEEP POND)
SNIPE - 4
W. MEADOWLARK - 5
BROWER BLBIRD - 8
(HOUSE ?) FINCH - 3

JULY 10 ORINDA ~~LAFAYETTE~~ (ORINDA GOLF COURSE), CONTRA COSTA CO., CALIF.

PUT UP (ON JULY 13) AN ALBINO THOMOMYS BOTTAE FOR M.V.Z. BROUGHT IN BY ~~CHARLES~~ DR. R. A. STIRTON OF U.C. & FOUND (?) BY HIS BROTHER (?) CHARLES E. STIRTON OF LAFAYETTE, CALIF. ON THE ORINDA GOLF COURSE. EYES PINK, OF COURSE.

JULY 28 (17 MI. SW RED ROCK (PINAL CO.), PIMA CO., ARIZONA)

PUT UP 5 MORE OF PRENTICE BLOEDEL'S FROZEN MACROTUS (SEE DATA MAY 26, 1956 THIS JOURNAL)

AUG 1 CORRAL HOLLOW, 2 MI. E CO. LINE, SAN JOAQUIN CO., CALIF.

PUT UP CORYNORHINUS ~~CAUGHT~~ ON JULY 29, 1956 BY JERRY COOK IN CAVE. BAT PUT IN ~~REFRIDGERATOR~~ JULY 31 - WEIGHING 6.4 GM THEN. TAKEN OUT DEAD AUG 1, - THEN BAT WEIGHED 6.3 GM. TO M.V.Z.

AUG 11 (17 MI. SW RED ROCK (PINAL CO.), PIMA CO., ARIZONA)

PUT UP 4 MORE OF PRENTICE BLOEDEL'S FROZEN MACROTUS (SEE DATA MAY 26, 1956 THIS JOURNAL)

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AUG 18 OAKLAND (½ MI. W GRIZZLY PEAK), ALAMEDA CO., CALIF.

PUT UP A RABBIT (YOUNG ONE) CAUGHT LAST NIGHT BY VIC LOWIN IN CHICKEN-WIRE MESH QUAIL TRAP BAITED WITH GRAIN. TRAP HAVE TAKEN 2 OR 3 MORE RABBITS AND ARE SET MOSTLY IN BRUSH ALONG SIDES OF FIRE ROAD THRU STRAWBERRY CANYON RIM.

(17 MI. SW RED ROCK (PINAL CO.), PIMA CO., ARIZONA)

PUT UP LAST 5 OF PRENTICE BLOEDEL'S FROZEN MACROTUS (FINALLY) (SEE DATA MAY 26, 1956 THIS JOURNAL)

SEPT 1 BERKELEY (M.V.Z.), ALAMEDA CO., CALIF.

GOT A FROZEN BAT UNCLAIMED IN WARD RUSSELL'S FREEZER. (EPTESICUS FUSCUS?) WILL PUT IT UP & TRY TO FIND OUT DATA ON IT SOME DAY.

SEPT 3 BERKELEY (1200 BLOCK OXFORD AVE.) ALAMEDA CO., CALIF.

FOUND FRESHLY DEAD SWAINSON'S THRUSH ON ROAD. EYES STILL MOIST & EXCRETA WET SO MUST HAVE JUST DIED OR BEEN KILLED THIS AM OR LAST NIGHT. HEAVY FAT DEPOSITS AROUND ABDOMEN AND BENEATH PTERYLAE.

SEPT 10 ¾ MI. SE WHITEHOUSE RANCH (S 23, T 13 S R 15 E), 170 FT., MADERA CO., CALIF.

JERRY COOK (FROM ENTOMOLOGY DEPT, U.C.) BROUGHT IN 1 DIPO. NITROIDES & 3 REITHRODONTOMYS MEGALOTIS TRAPPED

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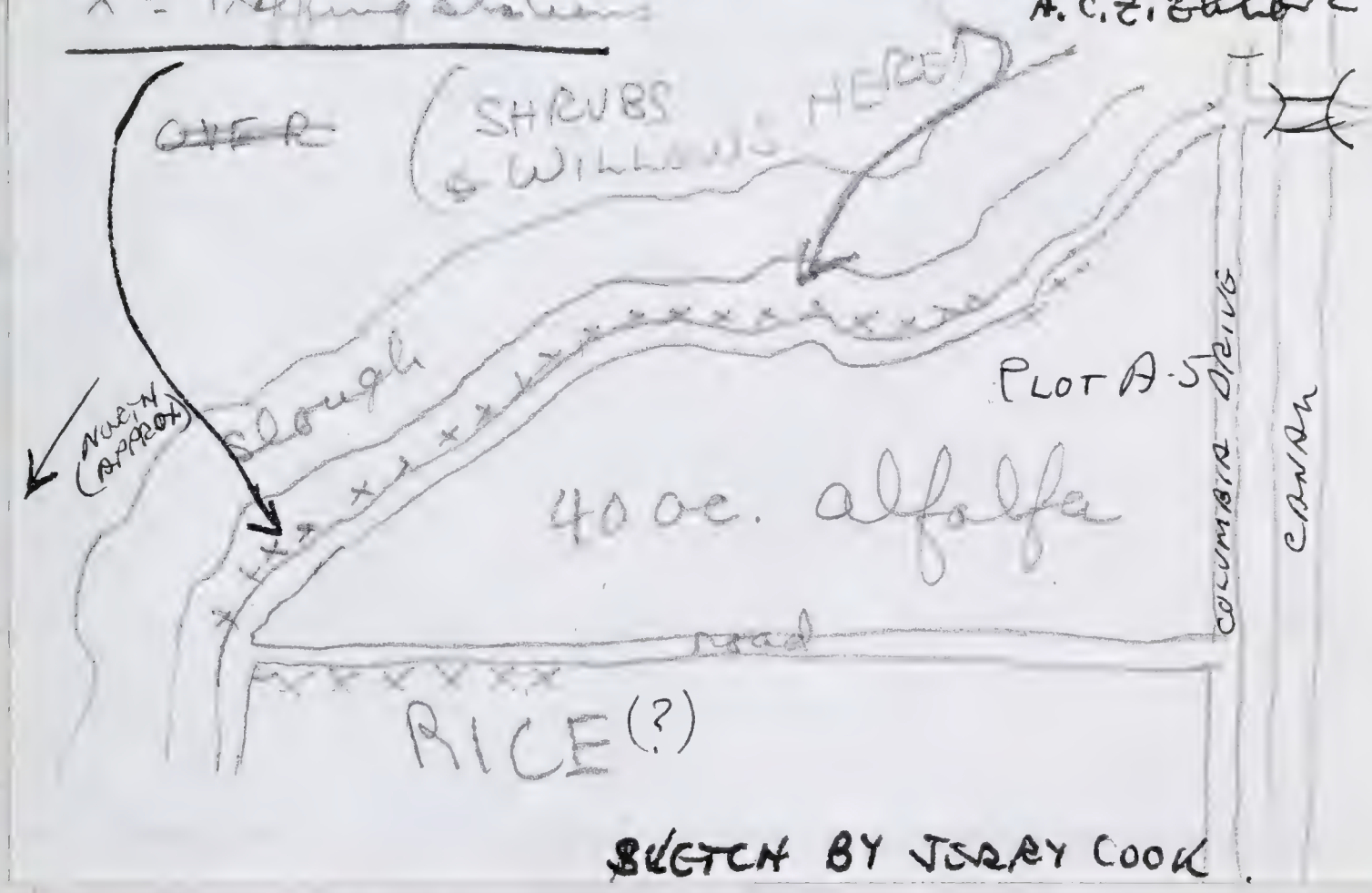
3/4 MI. SE WHITEHOUSE RANCH (S23, T13S R15E) 170± FT., MADERA CO. CALIF.

SEPT 10 (CONT) BESIDE SLOUGH (SEE MAP BELOW). DR. BENSON WANTED TWO RETHRO'S FOR MVZ SO I PUT THEM UP DIPO + 3RD RETHRO NOT WANTED (IMMATURE, SKULL BROKEN ETC.) SO I TOOK THOSE FOR PERSONAL COLLECTION. JERRY ALSO CAUGHT MUS (HOW MANY?) + RATTUS SPP? - IMMATURE. SAID ALSO OTHER TRAPS SPRUNG + DRAGGED BUT NOTHING IN THEM.
(LOCALITY FROM USGS MENDOTA QUADRANGLE, 1924 EDITION.)

JOURNAL SEPT 10, 1956
A.C. ZIEGLER

X = trapping stations



SKETCH BY JERRY COOK

SEPT. 11 SAN RAFAEL (82 SOUTHERN HEIGHTS BLVD.) 300± FT., MARIN CO., CALIFORNIA.

GOT A NEUROTRICHUS BROUGHT IN BY DR. RICHARD TABER'S (OF M.V.Z + FORESTRY - TAKING A JOB NOW TEACHING GAME MANAGEMENT IN MISSOULA, MONTANA) CAT. FOUND ANOTHER MUMMIFIED IN HIS DRIVEWAY AT 82 SOUTHERN HEIGHTS BLVD., SAN RAFAEL. DON'T KNOW EXACT MILEAGE OR DIRECTION YET BUT WILL

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(82 SOUTHERN HTS. BLVD.)
300± FT.

SEPT. 11 (CONT.) SAN RAFAEL, MARIN CO., CALIF.

FILL IN LATER. HIS HOUSE IS ON A HILL SLOPE WITH QUITE THICK BRUSH + TREES. FAMILY SAID CATS BROUGHT IN THESE ANIMALS FROM TIME TO TIME BUT DIDN'T KNOW IF THE CATS EVER ATE THEM. THE FROZEN ONE I GOT WAS KEPT ALIVE FOR A TIME THEN IT DIED APPARENTLY + WAS KEPT FROZEN. I GIVE AN APPROXIMATE DATE OF SEPT 1ST, 1956 FOR THE TWO SPECIMENS. FROZEN ONE ACCESSIONED BY MVZ (ACCN #). MUMMY KEPT BY MYSELF. LOCATION IS 1 MI. S SAN RAFAEL CITY LIMITS

(OFFICE 5 MI. E FIREBAUGH)
SEPT. 13 + 14 NEW COLUMBIA RANCH, MADERA CO., CALIFORNIA

LEFT BERKELEY ABOUT 1:00 PM. ARRIVED RANCH ABOUT 5:00 PM. GOT PERMISSION FROM MR MEYERS (FOREMAN?) TO TRAP. RANCH IS ABOUT 12,000(?) ACRES OF MIXED CROPS (ALFALFA, COTTON ETC) BORDERED BY A SLOUGH + CANAL ON EAST + SOUTH SIDES. JOHN LAWRENCE + I SET 100 MUSEUM SPECIMENS IN BIG PASTURE WITH A FEW GROUND SQUIRRELS + MANY JACK-RABBITS. GOT ONLY 2 PEROMYSCUS MANICULATUS. TRAPS SET IN OPEN 30'-40' APART, A FEW OTHERS SPRUNG. MOSQUITOES MADE SETTING TRAPS MISERABLE. ANOTHER 100 TRAPS SET ABOUT 1 MI. SOUTH WEST OF RANCH (ONE ANOTHER RANCH - BY MISTAKE) ALONG ROAD +

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SEPT 13 + 14 NEW COLUMBIA RANCH, MADERA CO., CALIF.
~~WET~~ FIELD BORDER. CAUGHT ONLY 4 BUFO (BOREAS?) IN THESE. SAW 2 OR 3 LARGE RANA CATESBIANA IN CANAL BY THIS FIELD, 50 TRAPS SET ALONG LEVEE RUNNING N & S ON EXTREME EASTERN BORDER OF NEW COLUMBIA RANCH ~~ABOUT 3 MI. SOUTH OF FIREBAUGH ROAD~~. THESE GAVE 1 DIPODOMYS NITRATOIDES ~~[illegible]~~ (PANAMINTE?) AND 1 PEROMYSCUS MANICULATUS. THIS SPOT WAS ROUGHLY 3 MILES SOUTH OF THE FIREBAUGH - SWISS COLONY ROAD, 30 TRAPS SET • 7 MILES SOUTH OF SAME ROAD IN DRY SHOULDER ON EASTERN BORDER - NOTHING IN THESE. 20 TRAPS SET ALONG SOUTH EDGE OF FIREBAUGH - SWISS COLONY ROAD AT THE "Y" (~~THE~~ ONE BRANCH LEADING TO FRESNO) ABOUT 7 MILES EAST OF FIREBAUGH, ~~ONE~~ TRAPS SPRUNG BUT NO CATCH. THIS SPOT, BORDERED ON BOTH SIDES BY GRAZING LAND, SEEMED TO HAVE MANY DIPO'S SINCE SEVERAL WERE SEEN BOUNDING ALONG & ACROSS ROAD & SEVERAL BURROWS WERE SEEN THAT WERE PROBABLY DIPO & NOT CITELLUS. TOTAL 300± TRAPS CATCH - 1 DIPO., 3 PEROMYSCUS (& 4 TODS), WE STARTED SEEING DIPOS FROM ABOUT 1:30 AM WHEN THE MOON ~~WAS~~ ROSE, JUST ABOUT SET, & SAW THEM UNTIL WE QUIT DRIVING ABOUT 4:30 AM. NONE WERE

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SEPT 13 +14 NEW COLUMBIA RANCH, MADERA CO., CALIF.

CAUGHT BY BUTTERFLY NET AS THEY HAD BEEN AT CARRIZO MONROW PREVIOUSLY. THESE IS I DIPOS THAT WE SAW ON THE HIWAY & EAST BORDER ROAD JUST DIDN'T STOP, IN THE GRASS BESIDE THE ROAD WHEN YOU SPOTTED THEM WITH CARLIGHTS & CREPT UP WITH FLASHLIGHT & NET TO GET THEM — THEY JUST KEPT ON GOING INTO THE BUSHES OR INTO HOLES. ONE LITTLE ONE WAS APPARENTLY CHOSE ENOUGH TO BE ALMOST CAUGHT BY HAND BY JOHN, BUT GOT AWAY & COULDN'T BE LOCATED AGAIN. AT 7:30 AM WE WOKE & HAPPENED TO MEET THE FELLOWS IN CHARGE OF THE GRAZING LAND JUST TO NORTH & SOUTH OF FIREBAUGH — SWISS COLONY ROAD. (NEW COLUM. RANCH STARTS ABOUT A HALF MILE SOUTH OF THIS ROAD) & THEY SAID WE MIGHT TRAP ON THEIR LAND NEXT TIME — IT LOOKS PRETTY GOOD FOR DIPOS WITH A FEW BUSHES BUT MOSTLY SHORT GRASS OR PLANTS WITH MANY OPEN SPACES. SOIL IS SOFT DUSTY SAND — RATHER HARD IN SOME PLACES WITH BUGS DIG IN IT. AFTER WE PICKED UP TRAPS & ATE BREAKFAST (11:00 AM)

C. ZIEGLER
1956

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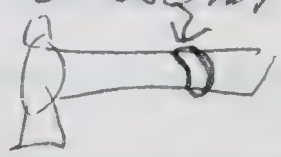
SEPT 13 & 14 NEW COLUMBIA RANCH, MADERA CO., CALIF.

WE MET MR. PRES THOMPSON THE SUPERINTENDENT OF THE RANCH & SHOWED HIM THE CATCH — EVERYONE WAS VERY NICE & SAID TO COME BACK SOON OR ANYTIME. MR MOYER MENTIONED SOMETHING ABOUT BEAVER & ROADRUNNERS BEING ON THE RANCH OR ELSE ABOUT LOOKING FOR THEM THERE — I TAKE HE MIGHT HAVE BEEN KIDDING. USED 15# DRY ICE IN CAMP COOLER & IT SURE FREZE MICE — STILL HAD 5+ # LEFT 30 HOURS AFTER BUYING IT. GOT BACK TO BERKELEY AT 4:30 PM SEPT 14. DISTANCE ABOUT 150 MILES ONE WAY.

BIRDS: PIED-BILLED GREBE — 1
UNID. DUCK — 1
TURKEY VULTURE — 20 (AT ONCE)
RED TAILED HAWK — 2(+?)
SPARROW HAWK — 6
UNID. HAWK — BUTEO — WHITE CRESCENT NEAR END OF WING.



MARSH HAWK — 2
KILLDEER — 20+ (+1 UNID SHOREBIRD TWO NOTE CALL WHEO-WHEO!)
MOURNING DOVE — 6
BARN OWL — 1
BURROWING OWL — 2(+1?)
RED SH'D FLICKER — 4
BLACK PHOEBE — 1
UNID FLYCATCHER — 1
HORNED LARK — 20 (+ LARK-LIKE NOTE HEARD AT NIGHT OVER)

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SEPT 13 + 14 NEW COLUMBIA RANCH, MADERA CO., CALIF.

BARN SWALLOW - 20
ENG. SPARROW - 10+
W. MEADOWLARK - 20
REDWINGED B'BIRD - 50+
BROWNEYES B'BIRD - 50+
B H'D COWBIRD - 2
+ PHEASANTS (RINGNECK??) - H
SOMELONG TAILED BUT RUFOUS COLORED
GREAT BLUE HERON - 2(+?)
GREEN HERON - 1
(AMER?) EGRET - 1

MAMMALS

DIPODOMYS - 1 (CROSSING HIGHWAY)
LEPUS CALIFORNICUS - 50±
SYLVILAGUS AUDUBONI - 4 (INCLUDING 2 DEAD PARTS OR IN FIELD)
CITELLUS BEECHEYI (?) - 5
DIPODOMYS SP.? - 15±
PEROMYSCUS MANICULATUS - 3
MEPHITIS - 4 DEAD ON HIGHWAYS.
FELIS DOMESTICUS - ADULT + 2 YG. ON RANCH ROAD
ANSO MEYER + THOMPSON SAID COYOTES WERE ON RANCH, ANSO SAID 7-TOED HOUSE CATS USED TO BE FOUND HERE.

LOCATIONS + DISTANCES FROM MENDOTA QUADRANGLE (USGS) 1924 EDITION (NEW COLUMBIA RANCH = COLUMBIA RANCH)

DIPO PUT UP IN MAMMALOGY CLASS - TO BE DECI'D FOR MVZ

L.C. ZIEGLER
1956

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SEPT 17 BERKELEY (STRAWBERRY CANYON) ALAMEDA CO., CALIF.

PUT UP SEPT 21 A SPILOGALE PUTORIUS (BIG MAME) TRAPPED BY BILL MAHER, AT TALLER CAGE NEAR POULTRY HUSBANDRY BUILDING OF UNIV. CALIF. SKULL BROKEN. WEIGHED SEPT 21 AFTER BEING KEPT ~~ON ICE~~ IN REFRIGERATOR & IN WATER FOR A FEW DAYS. SCENT GLANDS ALSO REMOVED BY DR. BENSON ON SEPT 17.

SEPT 23 BERKELEY (STRAWBERRY CANYON) ALAMEDA CO., CALIF.

SET OUT 90 MUS. SPEC'S & 5 RAT TRAPS BAITED WITH OLD PECANS (FOUND IN MVZ) IN BRUSHY WOODS SW OF BOTANICAL GARDENS. LAST NIGHT. TRAPS SET ABOUT 20 TO 30 FT APART IN 3 GROUPS — 40; 15; 35; WITH RAT TRAPS SCATTERED. (THE 15 MUS. SPEC'S SET IN GROVE OF RED WOODS — NONE SPRUNG.) GOT 1 PEROMYSCUS MANICULATUS, 7 P. TRUEI & 1 VERY YOUNG UNID. PEROMYSCUS. WILL GIVE ANY THOSE TO ZOO 135 FOR PRACTICE SKINNING. THIS LOCATION MAY BE CLOSE TO OR EVEN IN OAKLAND BY DR. BENSON SUGGESTED FOR THE LOCATIONS IN THIS CANYON TO USE BERKELEY ~~SINCE~~ ITS A LITTLE HARD TO FOLLOW ANY MAP WHILE IN WOODS & CITY LIMITS AREN'T MARKED ON ROAD UP CANYON. JOHN LAWRENCE RAN TRAPS WITH ME —

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SEPT 24 BERKELEY (STRAWBERRY CANYON) ALAMEDA CO. CALIF.

SET A LINE OF 50 MUS. SPEC + 2 RAT TRAPS LEADING UP A GRASSY SLOPE, THRU A NARROW BELT OF PINES + ONTO A DRY S-FACING BRECHARIS & ARTEMESIA + GRASS - DOTTED HILLSIDE. TRAPS SET 20-40 FT APART + BAITED WITH OAT PECANS. THIS SLOPE BEGINS JUST TO THE REAR OF A HOUSE (LAB?) ON THE LEFT SIDE OF THE MAIN GATE OF THE BOTANICAL GARDENS. SLOPE WOULD BE NE FROM GARDENS. CAUGHT 5 PEROMYSCUS TRUEI (1 INM.) + 1 PEROGNATHUS CALIFORNICUS (BY LEG - ALIVE) ALL ON DRIEST HIGH S-FACING SIDE OF SLOPE - NONE IN PINES OR GRASS GLAD I HAD TRAPS TIED ON AS 3 WITH MICE WERE DAMAGED - PROBABLY BY MICE AFTER BEING CAUGHT AROUND BERRY, BY LEG ETC.

NOTE: LOCATION ORDER CHANGE TO AGREE WITH MVZ CARDS (OR AT LEAST WITH MAJORITY OF THEM.

SEPT 26 STRAWBERRY CANYON BERKELEY, ALAMEDA CO. CALIF.

SET TOTAL OF 40 MUS SPECS & 3 RAT TRAPS BESIDE E + NE EDGE OF V.C. BOTANICAL GARDENS. (40 MUS SPEC'S & 3 RAT TRAPS ALONG EDGE OF BOTAN. GARDEN FENCE IN BRECHARIS POISON OAK + BLACKBERRY BUSHES; 50 ON EDGE OF DRY THISTLE FIELD AMONG ARTEMESIA + BRECHARIS BUSHES — ARTEMESIA FORMED AN INTERWATED

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SEPT 26 STRAWBERRY CANYON, BERKELEY, ALAMEDA CO., CALIF.
BANG 10' THRU BETWEEN FIELD + BACCHARIS. BACCHARIS LED ON UP SLOPE FOR 100 YDS TO CONIFERS + EUCALYPTUS ON TOP OF HILL.)
RAN TRAPS AT 8:AM ~~[illegible]~~ - GOT 2 PEROMYSCUS CALIFORNICUS, 5 PEROMYSCUS TRUEI ALONG FENCE.
1 PEROGNATHUS CALIFORNICUS BESIDE BACCHARIS BUSH NEAR BOT. GARDENS PARKING LOT (DRY HILLSIDE WITH A FEW ARTEMESIA BUSHES. 2 YOUNG PEROMYSCUS TRUEI AND 2 REITHRODONTOMYS ALONG ARTEMESIA ROW BESIDE THISTLE FIELD. SEVERAL OTHER TRAPS IN BOTH PLACES SPRUNG WITH HAIR + BLOOD IN THEM. 1 PEROMYSCUS TRUEI CAUGHT BY TAIL ON TREE LIMB 5' OFF OF GROUND HAD CUT STRING + DRAGGED TRAP 15' BEFORE BECOMING STUCK IN BUSHES - DEAD WHEN FOUND. ANTS CUT OFF PATCHES OF HAIR ON MANY SPECIMENS.
BAIT ~~[illegible]~~ INSTANT OATMEAL & BIRD SEED MIXED (CHEWED + PUT ON TREADLES). ONE TRAP THAT HOLD A REITHRO HAD THE STRING CUT OF RIGHT NEAR THE RED FLAG (2' UP IN BUSH) + THE FLAG HAD A FEW HOLES GNAWED IN IT. MICE FOR 200. 135 CLASS.

C. ZIEGLER
1956

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SEPT 29 SABEHEN CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO., CALIF.

SET OUT TRAPS AS FOLLOWS AT 6:30 PM - 8:00 PM. LAST NIGHT.

MUS SPEC'S - 50 ON DRY ROCKY HILLSIDE WITH ARTEMESIA ON LOWER PART + CONIFERS ON UPPER PART.

" 39 ALONG CREEK IN WET MEADOW WITH CONIFER BORDER 30-50 FT. AWAY. TRAPS SET IN GRASS (1' TALL) AND ALONG EDGE OF WATER. THESE 39 & 50 ABOVE SET ABOUT 30' APART WITH OLD PECAN BAIT.

SCHUYLER TRAPS - 4 ON ROCKY HILLSIDE + 1 ALONG CREEK (WITH MUS. SPEC'S)

RAT TRAPS - 5 ON ROCKY HILLSIDE AS ABOVE + 5 ALONG MEADOW CREEK.

TOTAL 89 MUS SPEC'S, 5 SCHUYLER + 5 RAT TRAPS.

ALSO SET OUT 25 LIVE "BENSON-BURT" TRAP'S ALONG ROCKY HILLSIDE BAITED WITH OATMEAL. RAN THESE 25 LAST NIGHT + GOT 2 PEROMYSCUS MANICULATUS + SAW ANOTHER YOUNG ONE (?)

RAN TRAPS AT 7:00-8:00 AM ON ROCKY HILLSIDE GOT 4 PEROMYS. MANICULATUS, 1 CITELLUS LATERALIS 1 EUTAMIAS SPECIOSA, 3 EUTAMIAS AMOENUS.

IN MEADOW 3 PEROMYSCUS MANICULATUS, 2 SOREX VAGRANS.

A. C. ZIEGLER
1956

JOURNAL

Sept 29 (CONT.) SABOHEM CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO. CALIF.

LIVE TRAPS HAD NOTHING ELSE THIS A.M. RAN ROCKY HILLSIDE TRAPS TWICE DURING DAY (1:30 PM & 4:00 PM + GOT 4 MORE EUTAMIAS AMOENUS. I HAD SET 5 MORE RAT TRAPS THERE AS I RAN THEM AT 8:00 AM THIS AM.

SABOHEM IS A UNIV. CALIF. RESEARCH STATION, HAS 6' WIDE 6' DEEP CREEK, WET MEADOWS + WILLOW WITH DRY SPOTS AND ALDER ALONG CREEK. AWAY FROM MEADOWS HILLSIDES ARE DRY WITH CONIFERS (MOSTLY LODGEPOLE PINE) + OCCASIONAL ROCKY PATCHES OF ARTEMISIA. ALONG DUSTY ROADS ROCKS ARE PILED + CHIPMUNKS SEEN OFTEN ALONG HERE. (EV. BEFORE ?)

WEATHER: HOT DURING DAY COLD (26°-) AT NIGHT.

OTHER MEMBERS OF ZOO 135 CLASS CAUGHT: SOREX TROWBRIDGII
MUSTELA ERMINEA (CAUGHT ON DEAD BIRD IN SNARE)
THOMOMYS MONTICOLA
MICROTUS MONTANUS
" LONGICAUDUS
ZAPUS PRINCEPS (1) ALONG CREEK IN GRASS

BIRDS: (SEEN OR SHOT BY GROUP.)
YELLOW-BELLIED SAPSUCKER - 1
STELLER JAYS (7±)
MT. CHICKADEE (10+)
RED-TAILED HAWK

P.C. ZIEGLER
1956

JOURNAL

SEPT. 29 (CONT.) SALMON CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO., CALIF.

SPOTTED TOWHEE
FOX SPARROW ??? (TOM LAWRENCE)
JUNCO. (MANY — 30+)
ALSO SET 5 TRAPS AROUND CABIN AT MIDNIGHT + 5 MIN'S LATER GOT 2 PEROMYSCUS MANICULATUS
ALSO 1 MORE DURING NIGHT.
SAW 2 ♀ (ONE WITHOUT SPIKES)
ODOCOILEUS HEMIONUS ON ROCKY SLOPE IN CONIFERS ABOUT 7:30 P.M. LAST NIGHT.
MANY DEER HUNTERS AROUND. 1 CAR HIT DEER (♀) ON ROAD — HIT LAST NIGHT.

SEPT. 30 SET OUT 39 MUS SPEC'S, 5 RAT + 5 SCHUYLER TRAPS IN WET GRASSY MEADOW BESIDE STREAM LAST NIGHT. MUS SPEC'S BESIDE 3 OR 4 IN. WIDE RIVULETS + ALONG STREAM EDGE UNDER OVERHANGING LEDGES OF DIRT + GRASS. RAT TRAPS + SCHUYLERS BAITED WITH WALNUTS AND/OR DRIED FRUIT + SET ON LOGS. NONE OF THESE SPRUNG, THO, BUT MUS SPEC'S CAUGHT 5 MICROTUS LONGICAUDUS.
50 MUS SPEC'S AND 5 RAT TRAPS ~~SET~~ LEFT OUT FROM YESTERDAY ON DRY ROCKY SLOPE HAD ONLY 2 PEROMYSCUS MANICULATUS.

TOTAL: ~~TRAPS — 89 MUS SPEC'S~~

89 MUS SPEC'S — {5 MICROTUS LONGICAUDUS, 2 PEROMYSCUS MANICULATUS}
25 "BB." LIVE TRAPS — 1 PEROMYSCUS MANICULATUS
10 RAT TRAPS — NOTHING
5 SCHUYLER TRAPS — "

SAW DEAD PORCUPINE BESIDE ROAD ABOUT 30 MILES AWAY FROM SALMON

Ziegler
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JOURNAL

Sept. 29 & 30 SAGEHEN CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO., CALIF.

UNIV. CALIF. SAGEHEN CREEK STATION

HILLSIDE BACK OF STATION WHERE 25 LIVE TRAPS SET FOR 2 NIGHTS.

C. ZIEBLER
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JOURNAL

SEPT. 29 + 30 SABEHEN CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO., CALIF.

DRY ROCKY HILLSIDE WITH ARTEMISIA CLUMPS TRAPPED SEPT. 29 + 30.

WET GRASSY MEADOW BESIDE STREAM - TRAPPED SEPT. 30.

C. ZIEGLER
1956

JOVANOV

PT. 29
F30

SADDEN CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO., CALIF.

"MEETING" ROOM AT SADDEN STATION.
SKINNING MAMMALS (AROUND FROM LEFT)
THAELER, SHEPPE, LEWIN, LAWRENCE.
ZOO 135 FIELD TRIP.

A. C. ZIEGLER
1956

JOURNAL.

SEPT. 30 (CONT.) SAGEHEN CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO., CALIF.

ON TRIP NONE.

~~OTHER~~ MAMMALS CAUGHT BY CLASS. FOR WHOLE TRIP: (14 PEOPLE)

SOREX TROWBRIDGEI — 4±
SOREX VAGRANS — 3±
CITELLUS LATERALIS — 3±
EUTAMIAS AMOENUS — 20+
" SPECIOSA — 2(?)
PEROMYSCUS MANICULATUS — 30+
ZAPUS PRINCEPS — 2
MICROTUS MONTANUS — 8±
" LONGICAUDUS — 6±
THOMOMYS MONTICOLA — 3 OR 4
NEOTOMA CINEREA — 3
ODOCOILEUS HEMIONUS — CAUGHT & 2 SEEN.

SEVERAL EUTAMIAS, 1 PEROMYSCUS MANICULATUS & 1 MICROTUS MONTANUS GUTTED & BROUGHT BACK TO SKIN LATER.

JOHN LAWRENCE HAD GOOD LUCK IN A MEADOW SHOWING MICROTUS-LIVE RUNWAYS — GOT 4 SOREX, 10± MICROTUS MONTANUS, & 8± PEROMYSCUS. MEADOW IS ABOUT A MILE UP THE SAGEHEN ROAD FROM STATION, DOWN A LEFT TURN SIDE ROAD A WAYS & NEAR AN OLD CABIN APPARENTLY.

OCT. 17 SILVER CANYON, 4600 FT., 5 MI. ENE BISHOP, INYO CO., CALIF.

PUT UP (FOR MVZ) 5 MAN'S BROUGHT BACK FROM WHITE MTS REGION IN SOUTHERN CALIF. CONN. OCT 12, 1956. NEOTOMA & DIPOS (& MAYBE PEROGNATHUS) SEEMED TO HAVE BEEN EATING GREEN VEG MATTER FROM COLOR OF ~~STOMACH~~ INTESTINAL CONTENTS.

A. C. ZIEBLER
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OCT 19 SABEHEN CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO. CALIF.
(SEE SEPT. 30, 1956 FOR DATA)
PUT UP 2 EUTAMIAS KEPT FROZEN FROM 200 135 FIELD TRIP. COLL. SEPT. 30.
(PUT UP LAST OF SABEHEN MAMMALS – 2 EUTAMIAS, 1 MICROTUS OCT 24.)

OCT 20 6.2 MI. S ~~3.1 MI. E~~ 3.1 MI. E, TIMBER BLUFF, 50± FT MARIN CO., CALIF.
LOCALITY FROM USGS POINT REYES QUAD. ED. 1918, REPR. 1930. MET DR & MRS BENSON 1 MI. S INVERNESS & DR. POINTED OUT 6000 NEUROTRICHUS TRAPPING GROUNDS WHERE I SET OUT 89 MUS SPECS & 2 RAT TRAPS BAITED WITH OAT PEANUTS. AT ABOUT 4:00 PM. TRAPS SET 5 TO 15 FT APART IN CLUMPS OF GRASS AND/OR SEDGE BESIDE 5 FT WIDE, 8 IN. DEEP CREEK IN COW PASTURE (2 PHOTOS TAKEN). MANY CLUMPS OF GRASS & SEDGE WITH SOME BRACKEN FERN & BLACKBERRIES & NETTLES WERE CLUSTERED ALONG THE CREEK IN A BAND ABOUT 50 FT. THICK. THE CLUMPS (WHICH WERE MOSTLY MORE OR LESS ISOLATED BY COW TRAILS FROM EACH OTHER WERE ABOUT 2–3 FT IN DIAMETER. THESE WERE PARTED FROM TOP OR SIDE & THE REFUSE CLEARED FROM GROUND IN CENTER & DIRT DUG AWAY TO UNCOVER 1½ IN DIA RUNS JUST BELOW GROUND. THERE WERE OPENING UP FOR MAYBE 6 TO 8 INCHES & TRAPS SET AT RIGHT ∠'S TO THEM. SOME SECTIONS WERE SOLID GRASS, SEDGE ETC BUT BY PUSHING PARTS THEM TRAPS COULD BE SET ~~THE~~ THE SIEMPS IN RUNS THAT WERE DUG OUT. ALL CLUMPS WERE ABOUT

C. ZIEGLER
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Oct. 21 6.2 mi. S, 3.1 mi. E Tomales Bluff, 50± ft., Marin Co., Calif

CLUMPS OF CAREX, GRASS ETC. TRAPPED OCT 21.
DRY RANGELAND IN BACKGROUND.

CENTER OF CLUMPS WHERE MUS. SACCIANUS WERE PHAECS IN "MOLE" RUNS. GROUND MOSTLY DAMP.
JOHN LAWRENCE IN PHOTO.

A.C. ZIEGLER
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Oct. 20 (CONT.) 6.2 MI. S, 3.1 MI. E TOMALES BLUFF, 50± FT. MARIN CO., CALIF.
3 TO 3½ FT HIGH. GROUND WAS DAMP AND EASILY DUG INTO IN MOST PLACES BUT IN OTHERS QUITE DRY, HARD + WITH NOT SO FREQUENT RUNS AS IN DAMP GROUND. VERY WET GROUND SEEMED TO HAVE NO RUNS — JUST MUD. CAUGHT A SHREW (TROWBRIDGE) IN ONE OF 15 TRAPS CHECKED AT 5:15 PM. JOHN LAWRENCE, WHO SET OUT 50 MVS. SPEC'S + 5 RAT TRAPS IN SAME AREA CAUGHT 3 SAME SPECIES IN ABOUT 30 TRAPS CHECKED AT THIS TIME.

Oct 21 LAPUS CALIFORNICUS ON ROAD AS NIGHT. CAUGHT 9 SOREX + TROWBRIDGEI + PEROMYSCUS MANICULATUS OUT OF 89 MVS. SPEC'S THIS AM. 3 OR 4 OTHER TRAPS SPRUNG (MAYBE BY RABBITS) DIRT PUSHED UP IN 2 MORE RUNS WHERE TRAPS WERE SET.

~~8 MI. N BRIDGEHAVEN, SONOMA CO~~

Oct. 21 1 MI. N, 0.2 MI. E BRIDGEHAVEN, 50± FT. SONOMA CO., CALIF.
11:00 AM. WORKED DOUGLAS FIRS FOR PHENACOMYS NESTS ALONG EDGE OF STATE HIWAY 1 FROM BRIDGEHAVEN BRIDGE AND ALONG RUSSIAN RIVER THRU DUNCAN MILLS, MONTE RIO, CAMP MEEKER, OCCIDENTAL AND ON TO FREESTONE. GOT MICE ONLY AT 1 MI. N BRIDGEHAVEN (BESIDE ROAD) 1 MOUSE AND AT ABOVE LOCALITY (ON POINT OVERLOOKING RIVER.) 3 MICE PETE JORDAN, JOHN LAWRENCE + I WERE SHOWN THE CATCHING TECHNIQUE BY MR BENSON + WIFE. THE 4 MICE WERE AROUND JUST RIGHT (1 TO EACH ♂). MANY TREES + NESTS WORKED BUT ONLY THOSE NEAR BRIDGEHAVEN

A.C. ZIEGLER
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OCT 21 1 MI. N, 0.2 MI. E BRIDGEHAVEN, 50± FT., SONOMA CO, CALIF.

DOUGLAS FIR .9 MI. BY ROAD FROM MIDDLE OF BRIDGEHAVEN BRIDGE (OR ABOUT .8 MI. N BRIDGEHAVEN). APPROXIMATE LOCATION OF PHENACOMYS NEST CIRCLED. 1 MOUSE FROM THIS NEST.

A.C. ZIEGLER
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OCT. 21. 1 MI. N, 0.2 MI. E BRIDGEHAVEN, 50± FT, SONOMA CO., CALIF.

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OCT 21 (CONT.) 1 MI. N, 0.2 MI. E BRIDGEHAVEN, 50± FT., SONOMA CO., CALIF.

GAVE ANY MICE. OTHER NESTS LOOKED AT TURNED OUT TO BE THOSE OF WOODRATS OR SQUIRRELS. GOT BACK TO INVERNESS ABOUT 5:30 PM. BIRDS FOR 2 DAYS:

WESTERN GREBE - 5	WINTER WREN - 1 (BY DEBONSON)
TURKEY VULTURE - 10	MARSH WREN (?) - 3
SPARROW HAWK - 10	ROBIN - 5
RED TAILED HAWK (?) 2	MEX. BLUEBIRD - 6
MARSH HAWK - 2	AUDUBON (MYRTLE?) WARBLER - 4
CALIF. QUAIL - 15 (2 COVEY)	W. MEADOWLARK - 20+
COOT - 30+	RED-WINGED BLACKBIRD - 100+
KILLDEER - 1	BREWER'S B'BIRD - 100+
WILLET - 50	BROWN TOWHEE - 5
GULLS	WHITE-CROWN SPARROW - 10
RED'SH'D FLICKER - 10	SONG SPARROW - 2
Y.-B. SAPSUCKER - 1	CROW - 5
BLACK PHOEBE - 5	RAVEN - 1
SCRUB JAY - 3	

OCT 29 2.5 MI. N CATHEDRAL CITY, RIVERSIDE CO., CALIFORNIA
CAPTURED MAY 1, 1954.

PUT UP A CAPTIVE DIPODOMYS DESERTI? GIVEN TO ME DEAD BY JIM ANDERSON OF MVZ. HE SAID ORIGINAL COLLECTOR → JERRY COOK MIGHT GIVE INFO ON WHEN & WHERE COLLECTED. TIP OF TAIL BROKEN OFF. NO APPARENT REASON FOR DEATH.

NOV. 4 2 MI. W BADEN STATION, 500± FT., SAN MATEO CO., CALIF.
(ON USGS SAN MATEO QUAD, ED. OF JUNE 1915)

GOT A O.K. FROM A MR. GEISLER TO TRAP ON LARGE DAIRY FARM THAT STRETCHES FROM JUNIPERO SERRA BLVD UP TO SKYLINE BLVD. FARM MOSTLY PASTURE WITH 2 OR 3 WETTER SPOTS

A.C. ZIEGLER
1956

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NOV. 4 (CONT) 2 MI. W BADEN STATION, 500± FT., SAN MATEO CO., CALIF.

WITH CLUMPS OF JUNCUS (?). GROUND IN THESE CLUMPS ONLY DAMP TWO NOT MARSHY. SET 50 MUS SPEC'S IN MOLE(?) RUNS AMONG CLUMPS AND ON EDGE OF FIELD ALONG ROAD SHOULDER (A BANK WITH BRIARS MOSTLY) IN CENTER OF MOST CLUMPS GROUND WAS FAIRLY HARD & COULDN'T FIND RUNS UNDERGROUND RUNS — SO TRAPS JUST SET IN OCCASIONAL OPEN SPACES IN CENTERS OF CLUMPS. SET OUT TRAPS AT 4:00 PM (NOV. 3) & RAN THEM AT 6:00 PM & 9:00 PM AS WELL AS 6:30 AM NOV 4.

6:00 PM
- 3 REITHRODONTOMYS MEGALOTIS
- 1 PEROMYSCUS MANICULATUS
- 4 MICROTUS CALIFORNICUS

9:00 PM
- 2 REITHRO'S
- 3 MICROTUS
- (ALSO ONE REITHRO - PEROMYSCUS SONG SPARROW - DEAD)

6:30 AM
- 10 REITHRO'S
- 1 PEROMYSCUS MANICULATUS (AL. COUNTS TRAPS)
- 5 MICROTUS

MOST OF REITHRO'S CAUGHT AT TRAP — THIS LOCATION IS 0.9 MI. N OF SHARP PARK CUTOFF ROAD ON SKYLINE BLVD. (RIGHT SIDE OF SKYLINE WHEN HEADING N.) CHINESE CEMETERY IS A MILE OR SO FURTHER DOWN THIS SMALL ROAD.

A.C. ZIEGLER
1956

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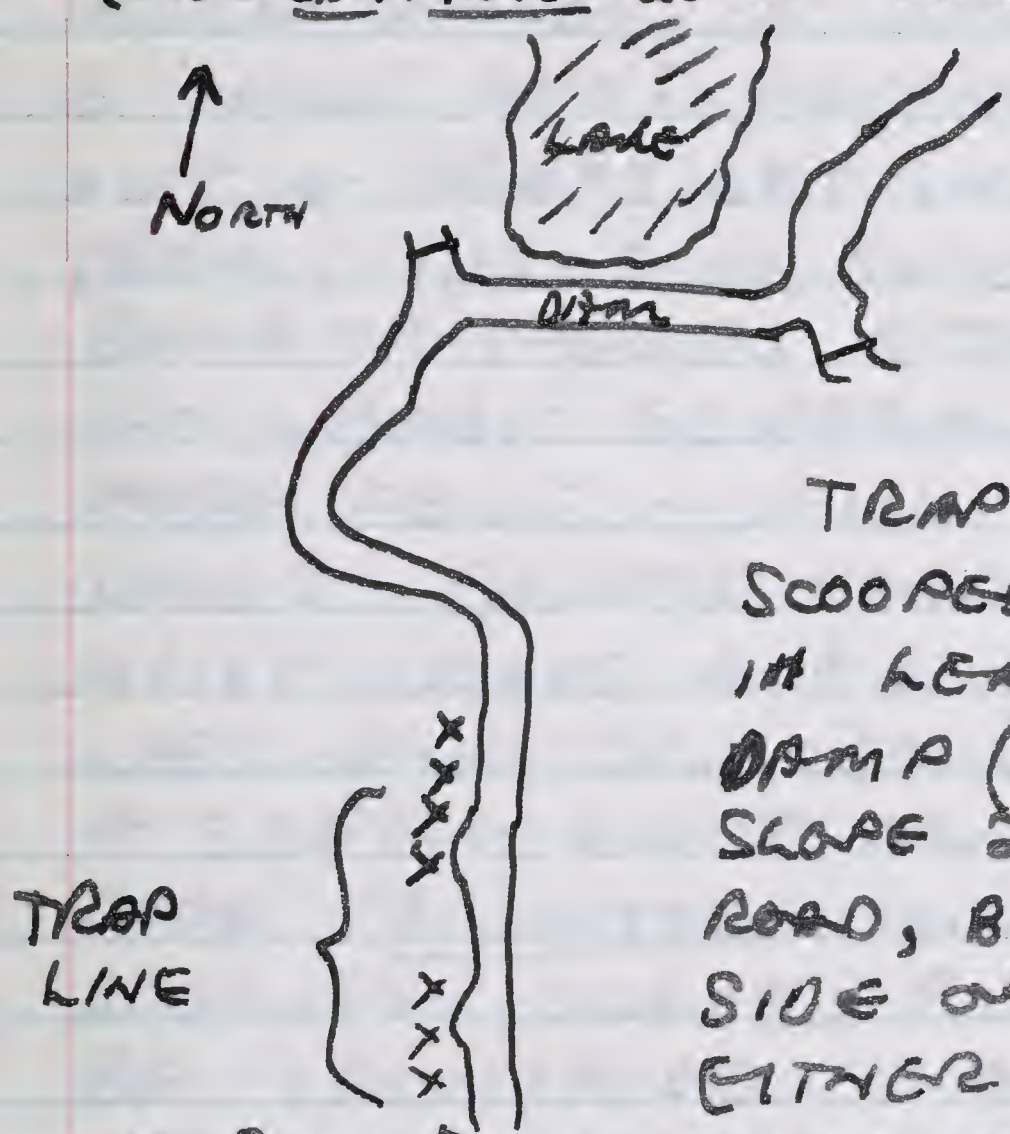
NOV. 4. (CONT.) 1.5 MI. S, 1 MI. W MILLBRAE, 400± FT., SAN MATEO CO., CALIF.

SET 39 MUS SPEC'S AT THIS LOCATION ABOUT 5:00 PM NOV. 3. LOCATION IS ALONG UNPAVED ROAD ABOUT ¼ MI. PAST (SOUTH OF) CAUSEWAY OR DAM AT S END OF LAKE ANDREWS.
(USGS SAN MATEO QUAD. ED. OF JUNE 1915)



TRAPS SET IN SCOOPED-OUT SPOTS IN LEAF LITTER ON DAMP (NE-FACING) SLOPE 20 FT. ABOVE ROAD, BUT ON ROAD-SIDE OF FENCE. ON EITHER SIDE OF ROAD IS SAN FRANCISCO GAME REFUGE & WATER SUPPLY LAND. POISON OAK, BAY, BUCKEYE & OAK GREW ON HILLSIDE & LITTER WAS ABOUT 2 INCHES THICK. RAN TRAPS AT ABOUT 9:00 PM (NOV. 3) & ~~BOT~~ AT 7:30 AM (NOV. 4):

9:00 PM
- 2 PEROMYSCUS CALIFORNICUS
- 1 PEROMYSCUS TRUEI (+ 1 THAT PULLED OUT OF TRAP AS I APPROACHED)
- 2 MICROTUS CALIFORNICUS

7:30 A.M.
- 3 PEROMYSCUS CALIFORNICUS
- 1 " TRUEI ??
- 1 " MANICULATUS

A. C. ZIEGLER
1956

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Nov. 4 (CONT.) 1.5 MI. S, 1 MI. W MILLBRAE, 400± FT., SAN MATEO CO., CALIF.

TRAPS ALL BAITED WITH OLD PEARS. SET 10 TO 20 FT. APART. IN BOTH LOCATIONS. THE GROUND AT THE LAKE ANDREAS LOCATION WAS DAMP + LOOSE BUT WITH MUCH GRAVEL IN IT. ONLY 5 OR 6 "MOLE" RUNS FOUND, THERE DUG OUT + TRAPS SET IN FRONT OF THEM. HILLSIDE EXTENDED UP BACK OF TRAPS STEEPLY FOR AT LEAST SEVERAL HUNDRED MORE FEET — ALL SHADED, MOIST WOODS. ACROSS ROAD WAS ALSO MOIST WOODS BUT WITH MORE OR LESS OPEN SPACES WITH BRECHRAS + SPARSE SHORT GRASS — HARDLY GOOD MICROTUS TERRITORY. OD-LOOKING SCAT PICKED UP TO BE IDENTIFIED: NATURAL SIZE

SHINY GREENISH BROWN. DEER?

BIRDS SEEN:

RED TAILED HAWK - 1
SPARROW HAWK - 1
PIED-BILLED GREBE - 2
COOT — 50+
GULLS — 100+
FLICKER, RED-SH. — 1
1 KINGFISHER (?) HEARD.
ROBIN 1
GEESE — 10 UNID. OVER HEARD HONKING.
JUNCO — 2
SONG SPARROW — 5

J. C. ZIEGLER
1956

JOURNAL

Nov 18 8 MI. S, 3 MI. E TOMALES BLUFF, 25+ FT., MARIN CO., CALIF.

SET OUT 50 MUS. SPEC. ALONG SMALL STREAM, AND IN GRASS CLUMPS BESIDE + AMONG 10' HIGH WILLOWS ON E SIDE OF ROAD. NO RUNS FOUND BY DIGGING IN GROUND ANYWHERE HERE BUT GROUND DAMP ALONG STREAM + IN WILLOWS.

SET 35 MUS. SPEC'S IN MORE?? RUNS IN DAMP GROUND BESIDE TRICKLE OF WATER ON W SIDE OF ROAD. ALSO 5 RAT TRAPS (3 ON WOODRAT HOUSE + 2 ON FALLEN TREE 15' AWAY). (NOV 17) RAN ALL TRAPS ABOUT 6:00 PM (NOV 17) BUT GOT ONLY 1 SOREX + VARIANS.

ATE SUPPER AT JOHN McCLURES RANCH + WENT NITE-LITING WITH ZOO 135 CLASS. VICHEWING + DR BENSON SHOT A PROCYON LOTOR IN WHITE GULCH. EYES SHONE LIGHT ORANGE IN LITE BUT GREENISH WHEN COON'S HEAD WAS TURNING. SAW 2 OTHER PAIRS OF EYES IN TREES (COON?). WALKED OVER A COUPLE OF HILLS + VIC GOT 2 OTHER SHOTS AT EYES BUT NO BODIES. SAW A FOX ALONG PIERCE RANCH ROAD. SLEPT IN OLD BUNKHOUSE (ON FLOOR). RAN TRAPS AT 7:30 AM. (NOV 18.). GOT 3 SOREX TROWBRIDGII + 3 PEROMYSCUS MANICULATUS ON E SIDE OF ROAD. ON W SIDE OF ROAD GOT 2 SOREX TROWBRIDGII + 5 REITHRODONTOMYS MEGALOTIS.
(+ THE SOREX VARIANS MENTIONED ABOVE)

A.C. BIGHER
1956

JOURNAL

Nov 18 (CONT.) 8 MI. S, 3 MI. E TOMALES BLUFF, 25± FT., MARIN CO., CALIF. (LOCALITY FROM U.S.G.S. QUAD POINT REYES ED. OF 1918, REPRINTED 1925). 3 RAT TRAPS SPRUNG + GRABBED BUT NO HAIR IN THEM SO MAYBE NEOTOMA(?) JUST MOVED THEM WITHOUT GETTING CAUGHT. OTHER MEMBER OF CLASS GOT ONLY PEROMYSCUS MANICULATUS, REITHRO'S + SOREX TROWBRIDGEI ALSO. ON W SIDE OF ROAD CLUMPS OF JUNCUS + GRASS ABOUT 3 FT HIGH + 2-3 FT THICK GREW CLOSE TOGETHER WITH FOOT-WIDE PATHS AMONG THE CLUMPS. STREAM WAS ONLY 2-3 IN. DEEP AND SPREAD OUT SEVERAL FEET IN SOME PLACES TO GIVE A MUDDY BOG. I DUG INTO GROUND IN THESE CLUMPS (WHERE INNER GRASS HAD DIED) AND FOUND TUNNELS 1-1½ INCHES IN DIA. IN ALMOST EVERY CLUMP WHERE GROUND WAS DAMP (BUT NOT DRIPPING WET.), 10' AWAY FROM THE STREAM, TWO, GROUND WAS HARD + DRY + I COULD NOT FIND TUNNELS IN THESE CLUMPS. ALL GROUND WAS A LITTLE SANDY BUT NOT ENOUGH TO ALLOW THE TUNNELS TO CAVE IN. HARD TRAPS (ON W SIDE OF ROAD) WERE SET FROM 5-15 FT. APART. MOST OF TRAPS ON E SIDE OF ROAD SET FROM 15-20 OR MORE FT. APART. BAIT - OLD PECANS. BESIDES THOSE TRAPS WITH ANIMALS IN THEM ONLY HALF A DOZEN OTHER MVS SPEC'S W GREE SPRUNG. SAW MEPHITIS, ODOCOILEUS, PROCYON, SYLVILAGUS,

A. C. ZIEBER
1956

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NOV 18 CONT. 8 MI. S, 3 MI. E TOMALES BLUFF 25 FT. MARIN CO. CALIF.

BAIRDMANI + LORUS CALIFORNICUS

~~ALL~~ EITHER AT DUSK OR AT NIGHT. HEARD A GREY SQUIRREL AT DR. BENSON'S PLACE THIS A.M. AT 10:00 ??

BIRDS ?? CHECK GREBE - 1 SHOT BY MOLINA
WESTERN GREBE - 1 NIGHT HERON - 2 HEARD
RED-TAIL HAWK - 1
SPARROW HAWK - 4
CAL(?) QUAIL - 4 SEMIPALMATED PLOVER - 1 (HEARD AT NITE.)
KILLDEER - 4 (CALLING)
OWLS
SCREECH OWL - 1 HEARD
BARN(?) OWL - 1 FLYING OVER AT NITE
RED SH'D FLICKER - 3
HAIRY W'PECKER - 1
BLACK PHOEBE - 2
MARSH WREN - 1
RUBY-CR'D KINGLET - 2
(MYRTLE OR AUDUBON ?) WARBLER - 1
W. MEADOWLARK - 4+
SHRIKE - 1
KINGFISHER - 1 (S.P. TAYLOR STATE PARK)

HAD A FULL MOON ALL NIGHT WITH AN TOTAL ECLIPSE STARTING AT 9:00 P.M. FOG COVERED ALL LOW AREAS LAST NITE BUT TOPS OF HILLS WERE FREE FROM IT. MY TRAPPING AREA WAS PROBABLY COVERED BY LIGHT FOG. FLAGS + STRINGS ON TRAPS SET NEAR WILLOW THICKET WERE PARTLY FROZEN THIS A.M. BUT NOT THOSE IN THICKET OR THOSE ON SLIGHTLY HIGHER GROUND. NO MICROTUS CAUGHT BY ANYONE. NO PEROMYSCUS SEEN.

A. C. ZIEGLER
1956

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NOV 24 GRIZZLY CREEK STATE PARK CAMPGROUND, T.1N, R.2E, HUMBOLDT CO., CALIF.

CAMPED HERE LAST NIGHT WITH J. LAWRENCE, TEDDY PAPPENFUSS, & GARY DEBELL. SET OUT 50 MUS. SPEC'S IN REDWOOD UNDERBRUSH MOSTLY IN RUNS DUG UP IN LEAF LITTER & GROUND. ~~BUT~~ SET 10-15 FT. APART AT ABOUT MIDNITE. GOT ONLY 3 PEROMYSCUS MANICULATUS. ONLY 2 OTHERS SPRUNG. ALSO SET OUT ABOUT 20 MUS. SPEC'S. AT E END OF CAMP GROUND. UNDER BUSHES & AT BASE OF TREES - NOTHING IN THESE. 1ST 50 SET JUST ACROSS HIWAY FROM CAMPGROUND. J. LAWRENCE SET OUT ~~40~~ OR 50 MUS SPEC'S & GOT 2 P. MANICULATUS (MAYBE ONE OF THESE WAS YOUNG P. TRUEI?) IN THESE REDWOODS GROUND ~~WAS~~ FAIRLY MOIST; LITTER 2 INCHES DEEP & ~~[illegible]~~ TUNNELS (1½" DIA) FOUND OVER MOST OF AREA. BIRDS AT CAMPGROUND

GREAT BLUE (?) HERON - 1
DUCKS - 2
KINGFISHER - 1
BROWN CREEPER - 1
CHICKADEES (CHES. BKD) - 3+
RUBY CRD KINGLET - 2
VARIED THRUSH - 2 OR 3

JOHN SAW Y'BELLIES SAPSUCKER.

BOYS COLLECTED SALAMANDERS - RANGER SAW TED'S CROWBAR & ASKED TO SEE WHAT HE HAD IN SACK - TED SHOWED HIM & HE SAID NOTHING. DIDN'T CHARGE US FOR CAMPING EITHER

JUNCTION OF GRIZZLY CREEK & VAN DUZEN RIVER 50 YARDS AWAY (W?) OF TRAP LOCATION. FOUND 2 BATRACHOSEAS IN LEAF LITTER WHILE SETTING TRAPS. LEFT AT ABOUT NOON FOR BLUE LAKE - VICI

A. C. ZIEBLER
1956

JOURNAL

NOV 25 BOISE CREEK CAMPGROUND, 800± FT., T.7N, R.5E. HUMBOLDT CO., CALIFORNIA

CAMPED HERE LAST NITE. SET 90 MVS. SPEC'S - ABOUT 70 ALONG 2 TO 3 INCH DEEP CREEK (DRY IN SPOTS) RUNNING STEEPLY DOWN SHADY HILL-SIDE. MOSSY ROCK, A FEW OLD LOGS & 3 INCH-DEEP LEAF LITTER MADE UP GROUND COVER. ONLY A FEW RUNS FOUND BY DIGGING INTO GROUND - MANY ROCKS & PEBBLES IN SOIL MAY HAVE KEPT DOWN TUNNEL DIGGING. MOLE RUN SEEN IN CAMP GROUND. ROAD CONSTRUCTION GOING ON DURING WEEK ON ROAD PAST THIS CAMP. ALSO MANY LUMBER TRUCKS ON ALL THESE ROADS. REMAINING 20 TRAPS SET IN MORE OR LESS OPEN SPOTS (FOOT OF TREES, UNDER BUSHES ETC.) LEADING UP HILLSIDE. ABOVE A ROCKY RIVER BED (PARTLY SUN-LIT). GOT ONLY 7 PEROMYSCUS MANICULATUS. KIDS FOUND SALAMANDERS IN THE 2-3 INCH DEEP CREEK RIGHT IN CAMPGROUND (E SIDE). THIS LOCALITY IS PROBABLY THE SAME AS THAT IN WHICH DR. STEBBINS COLLECTED RYACHONRITON. HAD A BUFF-COLORED HOUSE CAT AROUND CAMP LAST NIGHT LATE & THIS AM.. QUICKLY ATE ALL OF 4 MICE GIVEN TO IT. TREE COVER AT TRAPPING SPOTS WAS 80% CALIF. BAY, REST MAPLE (?) & DOUGLAS (?) FIR. BIRDS HERE:

CHICKADEE - 2
RUBY CR'D KINGLET - 2

LEFT ABOUT NOON FOR BERKELEY VIA BLUE LAKE, EUREKA, ETC.

LOCATION IS SECT. 30 U.S.G.S. WILLOW CREEK QUAD. 1952.

A.C. ZIEGLER
1956

JOURNAL

(HIWAY 299)
NOV 25 ¼ MI. E BLUE LAKE, 250± FT, HUMBOLDT. CO., CALIF.
(CONT.) PICKED UP A DEAD PIGMY OWL ON EDGE OF HIWAY. SAW IT AT 2:00 PM NOV. 24 BUT COULDN'T STOP TO PICK IT UP — SO LEFT IT FOR THIS A.M. ON WAY BACK THRU BLUE LAKE. TED PAPENFUSS CAUGHT GOPHER SNAKE AT THIS LOCALITY ALSO.

NOV 26 1 MI. S, 8 MI. E SHANDON (McMILLAN RANCH), SAN LUIS OBISPO CO., CALIF.
COLLECTED NOV. 24 BY JERRY COOK: ABOUT 55 SMALL MAMMALS. INCLUDING SOREX SP. (1), PEROGNATHUS CALIFORNICUS (5) PEROMYSCUS MANICULATUS, + MUS MUSCULUS
PUT UP THE PEROGNATHUS TO BE ID'D BY M.V.Z. REST OF MICE TO DR. PEARSON (?). LOCALITY IS ONE POINTED OUT ON TOPO SHEET (ELEVATION ??). JERRY RAN LINE OF 40 TRAPS 3 TIMES DURING NIGHT + ∴ THE HIGH CATCH. HE TOOK ALSO 2 KIT FOX (WHICH I DIDN'T SEE) IN LIVE TRAPS. MICE WERE WET (OUTSIDE) + HAD BEEN FROZEN TWICE IN 2 DAYS.

DEC. 9. SAN RAFAEL (400 BLOCK BRET HARTE RD), 300± FT., MARIN CO. CALIF.
SET 88 MUS. SPEC'S ON N-FACING SLOPE 20-40 FT. BELOW BRET HARTE ROAD. LAST P.M. TRAPS SET IN TUNNELS WHERE I COULD FIND THEM BY DIGGING. 1 WET OPEN SEEPAGE 20 FT. IN DIA. WAS HONEY-COMBED WITH 1 IN DIA. TUNNELS UNDER DAMP GROUND. SET ABOUT 20 TRAPS 5'

A.C. ZIEGLER
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Dec. 9 SAN RAFAEL (400 BLOCK BRET HARTE RD), 300± FT., MARIN CO., CALIF.
(CONT.) APART HERE. TRAPS IN WOODS SET 15-20 FT. APART. TREES WERE MOSTLY BAY WITH ABOUT 90% TOP COVERAGE ABOVE, NO RETURN WATER SEEN BUT GROUND DAMP + MUDDY IN CERTAIN PLACES, ON GROUND LEAF LITTER WAS 2 INCHES DEEP WITH A FEW ("BASTARD"?) FERNS + SOME POISON OAK. GROUND HEAD QUITE A BIT OF GRASS IN MANY PLACES BUT IN OTHERS FAIRLY CLEAN DIRT. 2 OCCUPIED(?) WOOD RAT NESTS SEEN.

GOT ONLY 1 PEROMYSCUS MANICULATUS AND THIS SHOWING SOME GREY PELAGE AND TRAPPED RUNNING ACROSS TRAP APPARENTLY. SKULL BROKEN SO NOT SAVED. VERY LIGHT FROST THIS A.M. ON CHASED SHADES. BIRDS SEEN:

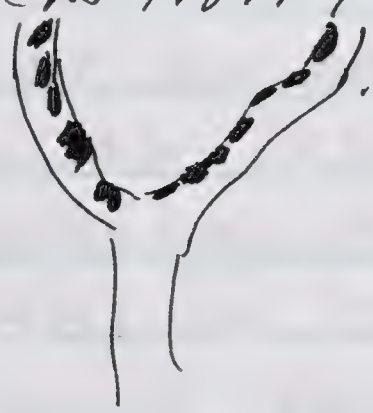
CROW - 10
GULLS - 50
CEDAR WAXWING - 4+
RUBY CRO KINGLET - 1
OREGON JUNCO - 10

TALKED TO 3 KIDS OUT WITH "BB" GUNS BUT THEY HAD NOT SEEN ANY NEUROTRICHUS EVER BROUGHT IN BY CATS. DR. TABERS OLD HOME WAS LESS THAN AN ½ MI. AWAY FROM TRAP LINE. HIS CAT USED TO BRING IN NEUROTRICHUS. GOOD MAP OF AREA FROM "FLYING A" GASSTATIONS. "SAN RAFAEL + MARIN CO."

A.C. Ziebler
1956

JOURNAL

Dec. 12 Corral Hollow, Alameda Co., California

KEPT A PEROGNATHUS INORNATUS CAPTIVE 'TIL TODAY WHEN ~~I~~ KILLED IT. ANIMAL ORIGINALLY CAUGHT BY JIM ANDERSON (MVZ.) ON OCT 28 1956, GIVEN TO MIKE MARSH (MVZ) THEN TO ME. IT SEEMED TO BE "WHEEZING" & HAVING A HARD TIME BREATHING SINCE DEC. 10. THIS PANTING GOT WORSE & ANIMAL DID NOT SEEM ABLE TO EAT SO I KILLED IT AND OPENED THE WINDPIPE. WHITE STUFF SEEMED TO BE CLOGGING JUST THE EXTREME UPPER END OF TUBE — COULD POSSIBLY HAVE BEEN ENLARGED UP SEED MATERIAL SUCKED IN BUT NOT SURE OF THIS, OF COURSE. SAVED AS SKULL ONLY. ANIMAL HAD NOT HAD YOUNG IN CAPTIVITY BUT UTERINE HORNS SHOWED:  SAVED AS SKULL ONLY.

Dec 23 2 mi. W Tomales, 400 ± ft, T.5N, R.10W, Marin Co., Calif.

SET OUT 78 MUS. SPEC'S BAITED WITH OLD PECANS IN A MARSH SPOT IN COW PASTURE ON RANCH OWNED BY WILLIAMSEN & ? . ALSO SET 50 MUS SPEC'S IN SAME TYPE OF MARSHY SPOT NEAR WILLIAMSEN'S HOUSE AFTER GETTING PERMISSION FROM HIM. MOSTLY SOME TYPE OF CAREX GROWING 2 FT OR MORE HIGH IN CLUMPS IN DAMP TO MUDDY GROUND. TRAPS SET 10-15 FT APART IN UNDERGROUND RUNS WHICH I DUG OUT. IN PLACES WHERE

A.C. Zeeber
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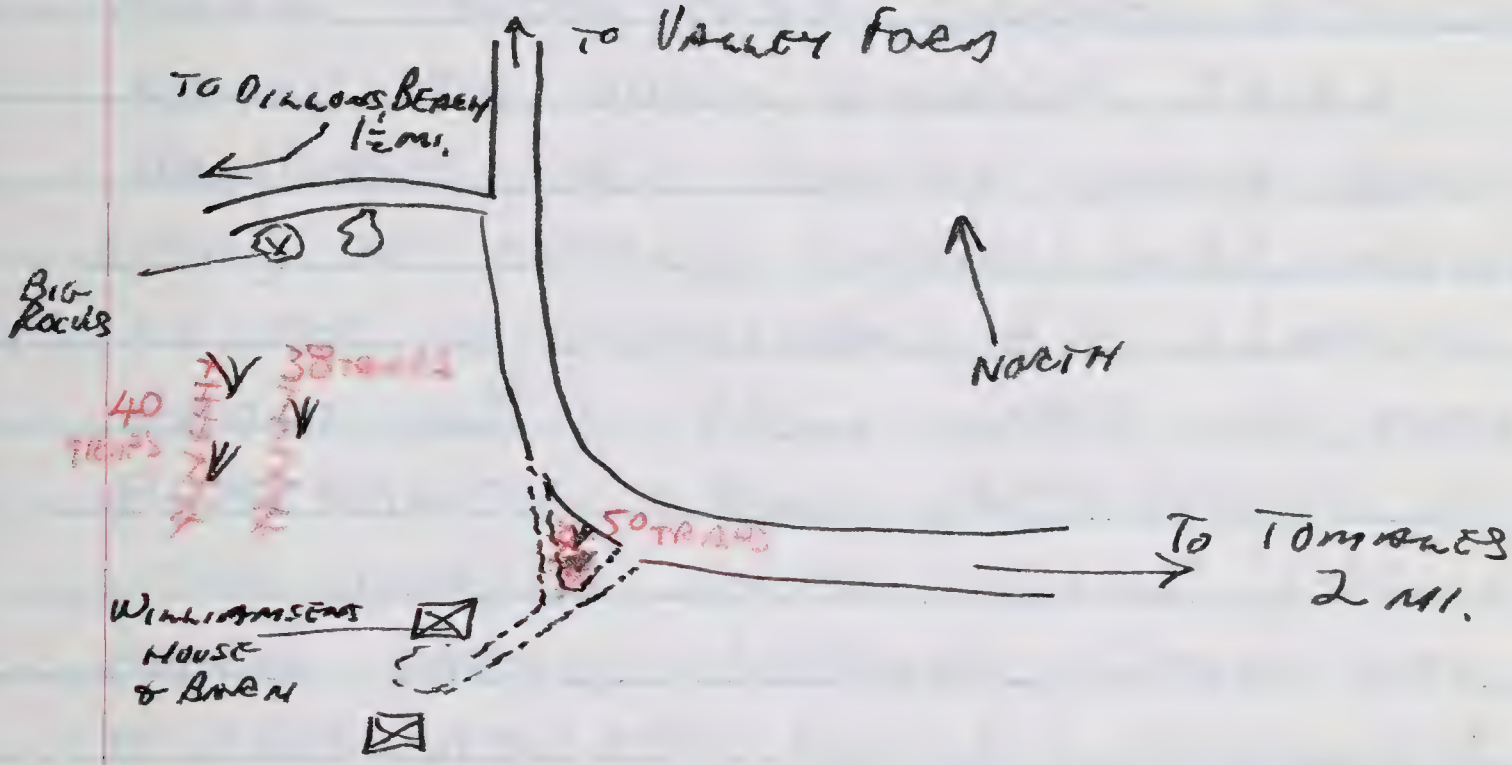
Dec 23 (cont.) 2 mi. W. Tomales, 400 ft., T.5N, R.10W. Marin Co., Calif.

Runs were flooded set traps just above water on grass stubs. Got thru setting traps about 7:30 P.M. (Dec. 22) Ran the first 38 in the cow pasture. Got 1 Sorex (vagrans). 6 traps set in open around edge of marsh were not sprung. Trap lines in red:



Camped at Big Rocks beside pasture & ran traps at 7:00 AM & got 1 Reithrodontomys & 3 Microtus californicus (2 with small white patches) in cow pasture and 2 Microtus in swale near ranch house. Other traps not touched apparently. Weather: Clear & cold at night, frost in A.M.

At 9:00 AM drove to Bodega Bay & dug in shell mound beside Mrs. Gaffneys fence & gate. "Gaffney" bench mark is on top of mound. Got a scraper or spear point of some sort, flint chips, part of broken mortar & some bird & mammal bones out of charcoal & shells about a foot

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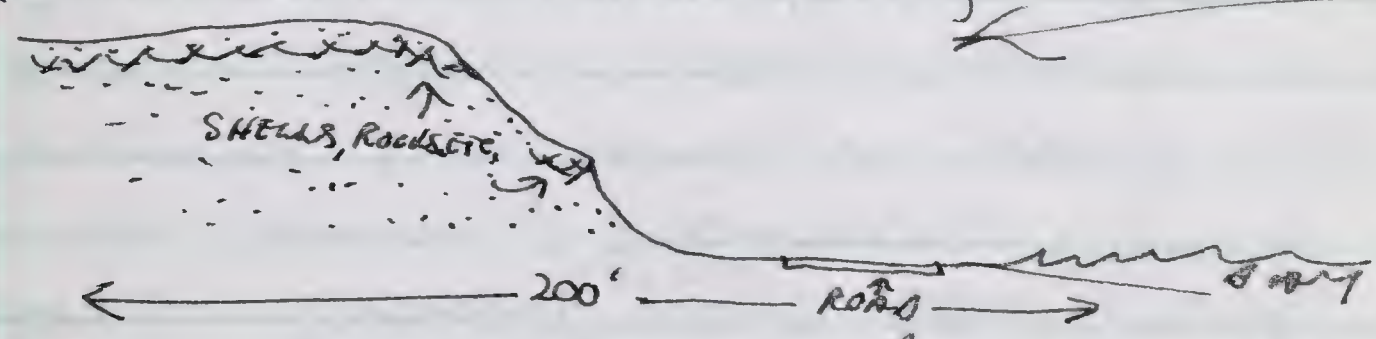
Dec. 23 cont. 2 mi. W. Tomales, 400± ft., T. 5N, R 10W, Marin Co., Calif.

DOWN FROM SURFACE OF MOUND. "FRESH" SAND & GRASS GREW ON TOP OF MOUND & ABOUT 6" DOWN ONE BLACKED SAND, ROCKS & SHELLS APPEARED & CONTINUED DOWN FOR ROUGHLY ANOTHER FOOT OR A LITTLE MORE, THEN JUST CLEAN YELLOW SAND ON DOWN UNDER THAT. HOWEVER AT FRONT EDGE (BAY-FACING SIDE) OF MOUND (WHICH WAS ABOUT 15 FT HI VERTICALLY & SLOPES AT ABOUT 60°) HALF WAY UP MORE BLACKENED SAND APPEARED & UPON DIGGING INTO THIS I FOUND MORE SHELLS, CHARCOAL, STONES ETC. + THE MORTAR PIECE & SCRAPER. SO APPARENTLY FRONT PART MOUND HAD TWO TERRACES IN USE. IN CROSS SECTION (DOTTED AREA = CLEAN SAND.)



WILL TRY TO HAVE DR LOVE MINNER TELL ME SOMETHING ABOUT THE BONES. ALSO PICKED UP 2 TEETH IN FRAGMENT OF JAW BONE FROM TOP OF MOUND - MAYBE DOMESTIC SHEEP OR DEER. SHEEP GRAZE THIS AREA.

BIRDS (FOR BOTH LOCALITIES):

PIED BILL. GREBE - 2 (BODEGA)
RUDDY DUCK - 5 "
SPARROW HAWK - 5 (BODEGA)
AVOCET - 10-54 (BODEGA)
COOT - 200-300 (BODEGA) PEOPLE HUNTING THEM!!

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DEC. 23 (CON'T) 2 MI. W. TOMALES, 400± FT., T.5N, R.10W, MARIN CO., CALIF.

BROWN PELICAN	1	(BODEGA)
? CORMORANT	10	"
R-SH FLICKER	2	(TOMALES)
BLACK PHOEBE	2	"
CROWS (RAVENS??)	2	
SCRUB JAY	1	"
SHRIKE	6	
W. MEADOWLARK	15+	(ROOSTING IN CAREX MARSH ON GROUND IN COW PASTURE FLUSHED & SPOTTED WITH FLASHLIGHT.)
(BREWER'S?) BLACKBIRD	100+	(FLOCKS IN FIELDS)
BROWN TOWHEE	4	

+ UNID. SPARROWS & GULLS AT BODEGA BAY.

DR. LOYE MILLER IDENTIFIED BONES FROM MOUND AS SYNSACRA, WINGS & LEGS OF DUCKS, GEESE CORMORANTS & 1 LEG BONE OF A COMMON LOON. MAMMAL BONES INCLUDED SEA LION BRACHIUM & SCAPULA, HUMERUS OF YOUNG BADGER & UNID. FRONTAL BONE. ALSO SAID FLAT PEBBLES, LOOKING WATERWORN, ABOUT 1-1½ CM IN DIA & .5 CM. THICK MIGHT BE STONEY STONES FROM (YOUNG?) CORMORANTS. SAID ALSO THESE & LARGER STONES (UP TO APRICOT SIZE) FOUND IN SOME SEA LION (YOUNG??) STOMACHS. ALSO THOT CHIPPED FLINT HEAD WAS TIP OF SPEAR HEAD. SHOWED ME PICTURES OF AN EMERYVILLE, CALIF. MOUND OUT OF WHICH HILDA. HOWARD HAD COMPILED & IDENTIFIED SAME TYPE OF BONE CONNECTIONS. MOUND AT EMERYVILLE LEVELED ABOUT 1924.

END 1956 JOURNAL.

Ziegler, A.C.
1956
Species Accounts
Amphibians
Reptiles
Birds
Mammals

Amphibians

..ZIEGLER
1956

ANEIDES LUGUBRIS

MAR 10 WILDCAT CANYON, CONTRA COSTA CO., CALIF.

10:25 AM - FOUND 2 UNDER 12 IN. LOG. PARTLY BURIED IN LOOSE HUMUS. CANOPY 50%. YELLOW SPOTS ON FLANKS. GULAR POUCH EVIDENT. SLIGHTLY EXPANDED TOE TIPS, (FOR ADD IN CLIMBING?). NASOLABIAL GROOVE. LOG WAS ON EUCALYPTUS - DOTTED HILLSIDE WITH SHORT SPARSE GRASS. WATER (WILDCAT CREEK) 50' DOWN HILL. PREMAXILLARY TEETH SEEN ON OUTER EDGE OF UPPER JAW - OBVIOUS WITH MOUTH CLOSED.

APR 14 STRAWBERRY CANYON, ALAMEDA CO., CALIF.

9:45 AM. FOUND 1 1 FT. DOWN IN NEOTOMA NEST HUMUS ON N-FACING SLOPE OF CANYON. IN NOT-TOO-MOIST HUMUS FORMED PROBABLY FROM DECOMPOSING NEOTOMA PELLETS AND STICKS WHICH HAD BEEN IN THE NEST A LONG TIME.

10:45 AM. FOUND ANOTHER ABOUT 2 FT DOWN IN STICKS & HUMUS OF LARGE NEOTOMA NEST HIGHER ON N. FACING SLOPE AND 50 YDS TO THE EAST OF THE NEST OF 9:45 AM.

J.C. ZIEGLER
1956

BATRACHOSEPS ATTENUATUS

MARIO WILDCAT CANYON, CONTRA COSTA CO., CALIF

8:35AM - SAW 4 UNDER LOG. I STEPPED ON LIGHTLY BY ACCIDENT & APPARENTLY SHED TAIL. TAIL PIECE THEN WAS AGAIN FOUND TO BE BROKEN IN 2 PIECES - MAYBE FROM THE ORIGINAL FOOT-CRUSHING. BROKEN TAIL LEFT WIGGLING & REST OF ANIMAL WAS STILL. 2 OUT OF 4 HAD REGENERATED TAILS. 1 WITH GOOD "TAIL" APPROX 90 MM LONG. SNOUT-VENT LENGTH OF ONE WITH REGENER. TAIL ≅ 40 MM. TOTAL 60 MM ON ONE THAT LOST TAIL (WITHOUT TAIL.) ~~BROWN~~ COLOR OF 3, DULL RUFOUS ~~REDDISH~~ BROWN; OF 1, MORE GREYISH-BLUISH. THESE WERE COVERED BY 14" DIA LOG ON LAWN IN PICNIC GROUNDS. CANOPY ABOUT 20%. COSTAL RIDGES NOTED ON SIDES OF ANIMALS. TAIL PIECES STILL MOVING AFTER 20 MIN'S WHENEVER TOUCHED. THROAT MOVEMENTS - "BREATHING" OR BUCCAL RESPIRATION - NOTED. SKIN NOTICEABLY SLIMY

9:00 - 4 MORE FOUND UNDER ANOTHER PART OF SAME LOG AS AT 8:35. 1 EXHIBITED VIOLENT WIGGLING MOVEMENTS WHEN UNCOVERED. ASSOCIATED FAUNA - 1 BANANA SLUG, SOWBUGS & EARTHWORMS.

10:50 FOUND 1 UNDER EUCAL. BARK ON GROUND. WHEN GRASPED BY TAIL IT SHED TAIL. CANOPY - 60%. TAIL KEPT WIGGLING VIGOROUSLY ~~AFTER~~ BUT ANIMAL WAS RELATIVELY QUIET. THIS ANIMAL MORE GREYISH-BLUE THAN REDDISH-BROWN.

ZIEBLER
1956

ENSATINA ESCHSCHOLZI

APR 14 STRAWBERRY CANYON, ALAMEDA CO., CALIF.
7:45 AM. FOUND 1 ONE ~~FOOT~~ 2 DOWN IN HUMUS (NOT TOO DAMP) OF NEOTOMA NEST ON N.- FACING SLOPE OF CANYON. BY THE WAY THE NEST WAS TORN DOWN BY THE OBSERVERS IT COULD NOT BE TOLD IF THE ANIMAL HAD ORIGINALLY BEEN IN THE LOOSE STICKS TOWARDS EDGE OF NEST ORIGINALLY OR IN THE LOOSE HUMUS IN WHICH HE WAS PICKED UP, ONLY A FEW INCHES AWAY AND A FEW INCHES DEEPER THAN AN ANGLIDES LUMBRS. BARRENOCERAS ALSO FOUND IN SAME NEOTOMA NEST. CLOSEST WATER ABOUT 75 - 80 FT AWAY DOWN ~ 45° BRUSHY SLOPE.

C. ZIEGLER
1956

HYLA REGILLA

MARIO WILDCAT CANYON, ~~CONTRA COSTA CO, CALIF.~~
11:00 AM. MEMBER OF GROUP FOUND 2 IN SCUMMY DITCH
BESIDE ROAD. SAID THEY WERE CROAKING
PADS ON TOE + FINGER TIPS SEEN. BLACK EYE
STRIPE SEEN, 1 WITH BLACK CHIN.
BOTH GREEN.

C. ZIEGLER
1956.

TARICHA TOROSA

①

MARIO WILDCAT CANYON, CONTRA COSTA CO., CALIF

8:35 AM. WILDCAT CREEK SAW 2 IN 4' WIDE 6-8" DEEP, FAIRLY SLOW MOVING STREAM / HEADING SLOWLY UP STREAM WALKING ON MUD & GRAVEL BOTTOM. CANOPY ABOUT 95% ACCORDING TO JOHN BURNS. 2 WATERSTRIDERS SEEN ON SURFACE OF STREAM. ~~NEWTS~~

9:10 AM - WILDCAT CREEK FOUND 1 ♂ - SWOLLEN VENT LIPS, RATHER PROMINENT TAIL FIN & NUPTIAL EFFLORESCENCES ON FOOT & BELLY. THROAT PULSATIONS NOTICED. CANOPY HERE 85%. REDDISH BROWN ABOVE - LIGHT DULL ORANGE BELOW

9:15 AM - FOUND ♀ + 1 MORE ♂ NEARBY (20 FEET AWAY) AS 9:10 AM. ♀ "FAT" ABDOMEN, GRANULAR BROWN SKIN. NO NUPTIAL EFFLORESCENCE.

DEFENSIVE PX. OF 1 ♂ - FLATTENED BODY ARCHED HEAD + TAIL UP, ~~FEET OF~~ LIMBS OUTSTRETCHED. STILL HELD THIS POSE FOR AT LEAST 5 MINUTES. WHEN DIPPED IN WATER STILL HELD IT. & WHEN PUT BACK ON LAND, SLOWLY (THRU ANOTHER 3 MINUTES) "RELAXED" BEFORE BEGINNING TO CRAWL AGAIN. STAKED OUT ♀ TIED TO 3' THREAD AT 9:30 IN 4' WATER IN STREAM. RELEASED 2 ♂ ABOUT 40' DOWNSTREAM - 1 MARKED BY 4TH TOE OF RT. HIND FOOT CLIPPED. OTHER NOT MARKED BUT HAD 1 SCAR TISSUE ON TAIL. WILL CHECK BACK LATER ON ♀ TO FIND IF ANY ♂ APPROACHED ♀ TETHERED OUT. 1 ♂ "SWAM" USING TAIL ONLY IN 8" DEEP WATER. OTHER HALF FLOATED HALF-WADDLED DOWNSTREAM WHEN RELEASED

A.C. ZIEGLER
1956

TARICHA TOROSA

(2)

MARIN WILDCAT CANYON, CONTRA COSTA CO., CALIF.
(CONT.) 9:55 FOUND ♀ IN GRASSY FIELD WITH BRAKEARIS CLUMPS SCATTERED THRU IT BUT NO CANOPY OTHER THAN THIS. SLIGHTLY SWOLLEN VENT, GRAY DORSAL SURFACE. GRASS WAS 2-3 IN. HIGH & WET WITH DEW. SALAMANDERS SKIN WAS WET PROBABLY FROM DEW. SHE WAS HEADING UP HILL AT LEAST 150' FT FROM STREAM & BASE OF FIELD. WALKED ON TOP OF GRASS — NOT THRU IT. LOOKED AT EGGS SAID TO BE OF THIS SPECIES ATTACHED TO SUBMERGED TWIG IN GLOBE OF JELLY EGGS ROTATE INDEPENDENTLY WHEN CLUSTER IS ROTATED EGGS. ABOUT 20± IN CLUSTER, 3 OR 4 CLUSTERS ON TWIG. CLUSTER ABOUT AN INCH TO 1½ IN'S ACROSS. FOUND IN 6 IN DEEP FAIRLY RAPIDLY MOVING STREAM. FOUND ♀ (STARTED OUT AT 9:30 AM) AT 11:55 WITH ♂ ON TOP, IN AMPLEXUS ON STREAM BOTTOM. THIS SECTION ½ SHADED. COLOR OF ♂ NOTICEABLY PALER (GRAYISH) THAN REDDISH BROWN OF ♀. ♀ PULLED IN BY STRING BUT ♂ KEPT HOLD. ~~NEITHER~~ ♂ WAS NEITHER OF THOSE MARKED AT 9:30 PM & PUT DOWNSTREAM.

Reptiles

J.C. ZIEGLER
1956

DIADOPHIS AMABILIS

MAY 12 W. MOCAT CANYON, CONTRA COSTA CO., CALIF.
4:30 AM 1 UNDER 1 FT WIDE ROCK IN GRASS FIELD ("WILD OATS?") GRASS ABOUT 1½ FT. TALL. 1½ IN WIDE RUNWAY UNDER ROCK. 350+ MM SNOUT VENT LENGTH. ABOVE, PINKISH BELOW WITH INCONSPICUOUS BLACK BARS BELOW. UNDER COLOR PARTLY CLOUDY GIVING THE LIGHT PINK COLOR - THIS MEANT SHEDDING SOON. RECEIVED TO BEING VOUCH. LARGE CENTIPEDE ALIVE FOUND NEXT TO SNAKE. BLEW A BUBBLE WHEN HELD IN HAND. TAIL COILED IN CONE FOR 3 COILS WHEN HELD IN HAND ALSO.

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1956

GERRHONOTUS COERULEUS

APR 28 WILDCAT CANYON, CONTRA COSTA CO., CALIF.

10:30 AM - GENE VOLZ CAUGHT OF IN 3 TO 6 IN. HIGH GRASS FIELD ON EDGE OF BORDER OF HIGHER (1 FT.+) GRASS & BUSHES. NEAR TENNIS COURT PICNIC GROUNDS. ABOUT 10 IN. LONG (TOTAL), BLACKISH BROWN ON BACK WITH YELLOWISH WHITE MARKINGS & BROWNISH BARS "UNDERNEATH" THESE LIGHTER MARKINGS. WHITISH SPOTS (OR TIPS OF SCALES?) ON SIDES - SMALL. SNOUT VENT (ACC TO VOLZ) LENGTH ABOUT 100 mm. NO COVER DIRECTLY OVERHEAD BUT 20 X 30 FT CLEARING BESIDE MENS REST ROOM WAS SURROUNDED BY BLACKBERRY, POISON OAK, BRACKENS & LIVE OAK TREES & BUSHES. IF FROG WATER WERE A NECESSITY TO THIS LIZARD HE COULD GET IT FROM LEAKY PIPES OR ~~COMMODES~~ URINALS IN MENS REST ROOM. THE RESTROOM CONCRETE FLOOR WAS ONLY A FOOT ABOVE THE GROUNDS, WITH SPACE TO CRAWL UNDER THE DOOR.

D.C. ZIEGLER
1956

GERRHONOTUS MULTICARINATUS

MAYR WILDCAT CANYON, CONTRA COSTA CO., CALIF.
10:30 AM. 1 CAUGHT BY 2 MEMBERS OF GROUP IN 5 GALL METAL CAN LYING IN GRASS ON TOP OF ROCKS ABOVE CANYON 1 MI. NE OF TENNIS COURTS. 25 YARDS, PUDDLES OF WATER NEARBY, SNOUT VENT LENGTH - 140 MM.

J.C. ZIEBLER
1956

PITUOPHIS TAEONIFOR

MAY 12 WILDCAT CANYON, CONTRA COSTA CO., CALIF

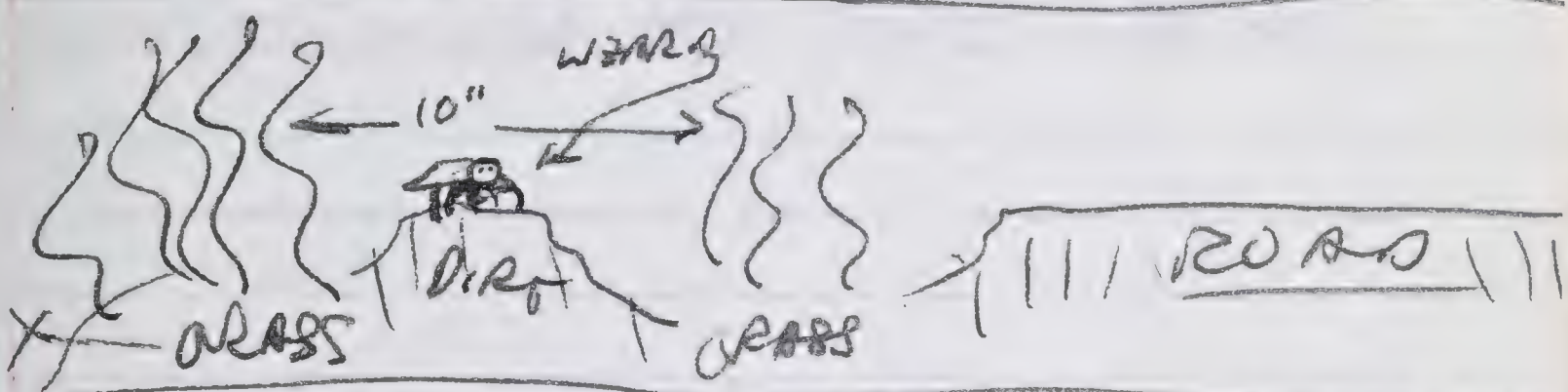
1" NEAR TOP OF RIDGE ABOVE CANYON 1 MILE NE OF TENNIS COURTS. IN GRASS 1½ FT TALL (12.2°C CLOUDY) 1050 AM ~~[illegible]~~ SNOUT VENT. LENGTH ~~[illegible]~~ WHEN SIGHTED WAS COILED IN LOOSE OBLONG THEN APPR. WHEN GROUP APPROACHED TRIED TO GET DOWN GOPHER-SIZED HOLE IN GROUND. JAWS HELD WAY OPEN OCL. WHEN HELD ~~[illegible]~~ HANDS BY NECK. REPEATED & WENT BACK INTO GRASS BY SINUOUS MOVEMENTS.

J. G. ZIEGLER
1956

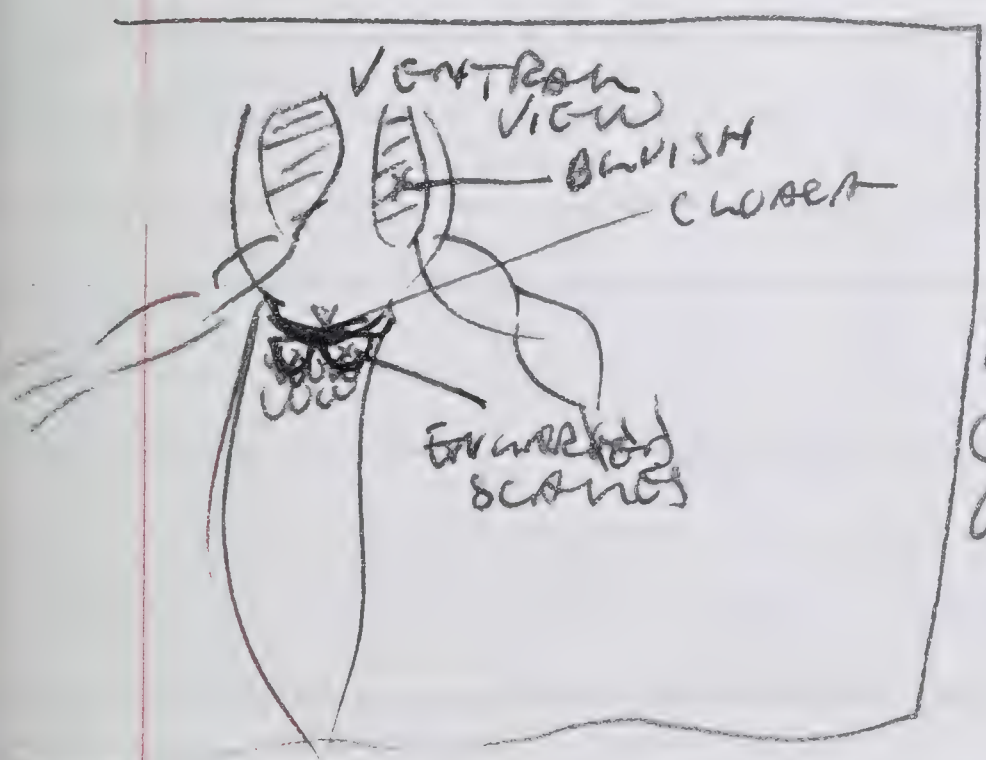
SCELOPORUS OCCIDENTALIS

MAY 12 WILDCAT CANYON, CONTRA COSTA CO., CALIF

9:05 AM. GENE VOLZ NOOSOO & ON RIDGE ROAD NEAR TOP OF RIDGE ABOUT 1 MI. NE OF TENNISCOURTS. 14.6°C GROUND TEMP. 6 IN ABOVE GROUND 10°C AND 32.4°C CHOKEAN TEMP.



DIRT ON WHICH LIZARD WAS CAUGHT WAS ABOUT 1/3 SMALL UP TO 1 IN IN DIA & 2/3 DIRT. GRASS, DOCK MUSTARD. NEXT TO LIZARD WAS ABOUT 1 1/2 FOOT TALL. THIS SPECIMEN WAS A ♂ AS SHOWN BY ENLARGED POSTANAL SCALES.



BLUISH BARS UNDER NEATH ON ABDOMEN FROM JUST IN FRONT OF REAR LEGS TO EVEN WITH FRONT LEGS. COLOR ABOVE - DARK GREYISH BLACK ABOVE.

10:40 AM - STARTED OUT 1 ♀(?) WITH HOBBINS ETERNAL INK OVER PARIETAL BONE. HELD BY 6" THREAD AROUND BODY IN FRONT OF HINDLEGS TIED TO STICK. 26.2°C CHOKEAN WHEN STARTED 29.9°C AT 10:52 AM. LIZARD JUST SPRAWLED OUT: SOAKING UP SUNSHINE.

A.C. ZIEBLER
1956

SCELOPORUS OCCIDENTALIS

MAY 12 (ONT) WILDCAT CANYON, CONTRA COSTA CO., CALIF
AROUND TEMP - 22 - 23° C. CLOSED
AT 11:05 AM - 33.6°C. AT THIS
TIME AFTER BEING PUT BACK ON
AROUND LIZARD DID NOT SPREAD
BODY AGAIN. HELD BODY UP A
LITTLE MORE OFF THE GROUND.

C. ZIEGLER
1956

THAMNOPHIS ELEGANS

MARIO WILDCAT CANYON, CONTRA COSTA CO., CALIF
11:10 AM. FOUND 1 UNDER 1' DIA. ROCK IN HIGH GRASS, CONIUM + BRACHYRIS FIELD NEAR FISHING POND IN TILDEN. REDDISH CHECKS BETWEEN BLACK BLOTCHES ~~[illegible]~~ ON BACK, SINGLE YELLOW STRIPE ON SPINE. ALMOST TOURQUOISE BENEATH WITH REDDISH SPLOTCHES. 30 INCHES LONG. ~~[illegible]~~ COLLECTED (220 DEZ)

APRIL POINT ISABEL, CONTRA COSTA CO., CALIF.
9:15 AM. CAUGHT 28, N, ONE, YELLOW BARRED STRIPE, BROAD REDDISH STRIPES IN 60 INCH GRASS. NEAR SAN PABLO MARSH AT ELLIOT RANGE. CRAWLED NOT TO QUICKLY TO BURROW DOWN IN DITCH BESIDE LARGE TIMBER. DUG HIM OUT + "MILKED" BODY FORWARD. PUT OUT A YOUNG (?) MICROTUS & SWAMPWOOD TASK FIRST WITH 2 2 INCH SLUGS LYING ON MOUSES HEAD. BODY WORM SLICKLY DOWN WITH MUCUS, FRONT PAWS HELD TIGHTLY IN TOWARDS HEAD. SKIN OF HIND LEGS + PART OF INTESTINES DISSOLVED. BAD SARTAN FISHY SMELLING MUSK EXTRUDED FROM VENT OVER MY HANDS.
9:40 AM ~~CAUGHT~~ SAW ANOTHER 18 INCHES LONG + NARROW AN INCH THICK ON DRY STONY BANK. IT SLID DOWN BANK INTO CREEK IN FLOOR OF DITCH + WAS PROODED OUT OTHER END + CAUGHT. SEEMED BY FEEL TO HAVE NOTHING IN STOMACH. YELLOW BACK STRIPE ABOUT 3 SCALES WIDE. SIDE STRIPES YELLOW ALSO + ABOUT SAME WIDTH. NO REDDISH COLOR
10:45 AM. SAW ANOTHER ROUGHLY 20 INCHES LONG + ¾ IN. THICK IN CREVICE NEXT TO

C. ZIEGLER
1956

THAMNOPHIS ELEGANS

APR 22 (CONT) POINT ISABEL, CONTRA COSTA CO, CALIF.
NW ROAD LEADING INTO MARSH. CREEK WAS 1½ FT DEEP & COVERED PARTLY WITH SALICORNIA. BY TIME I GOT SALICORNIA CHEARED AWAY TO LOOK DOWN IN LONG, NARROW CREVICE SNAKE HAD TRANGLED ALONG IT & CUT OFF AT A CROSS CREEK I GUESS. DID SEE THO, THAT IT HAD THE YELLOW DORSAL STRIPE & REDDISH SIDES.

MAY 12 WILDCAT CANYON, CONTRA COSTA CO, CALIF
10:05 AM - CAUGHT ABOUT 2 FT. ONE (NOT MEASURED) ON TOP OF RIDGE ABOVE CANYON 1 MI NE OF TENNIS COURTS. CAUGHT MOVING THRU GRASS. WHEN HANDLED EXCRETED SOME SORT OF BAD SMELLING FLUID & WHITISH SUBSTANCE FROM CLOACA. RELEASED. NO OTHER DATA.
10:25 AM 1 CAUGHT IN GRASS. 65 CM SNOUT VENT. CLOACAL TEMP 24.2°C. SECRETION RELEASED AS IN ONE AT 10:05
CAUGHT ABOUT 300 FT FROM ONE CAUGHT AT 10:05 & IN SAME TYPE OF HABITAT BUT ON OPOSITE SIDE OF ROAD.

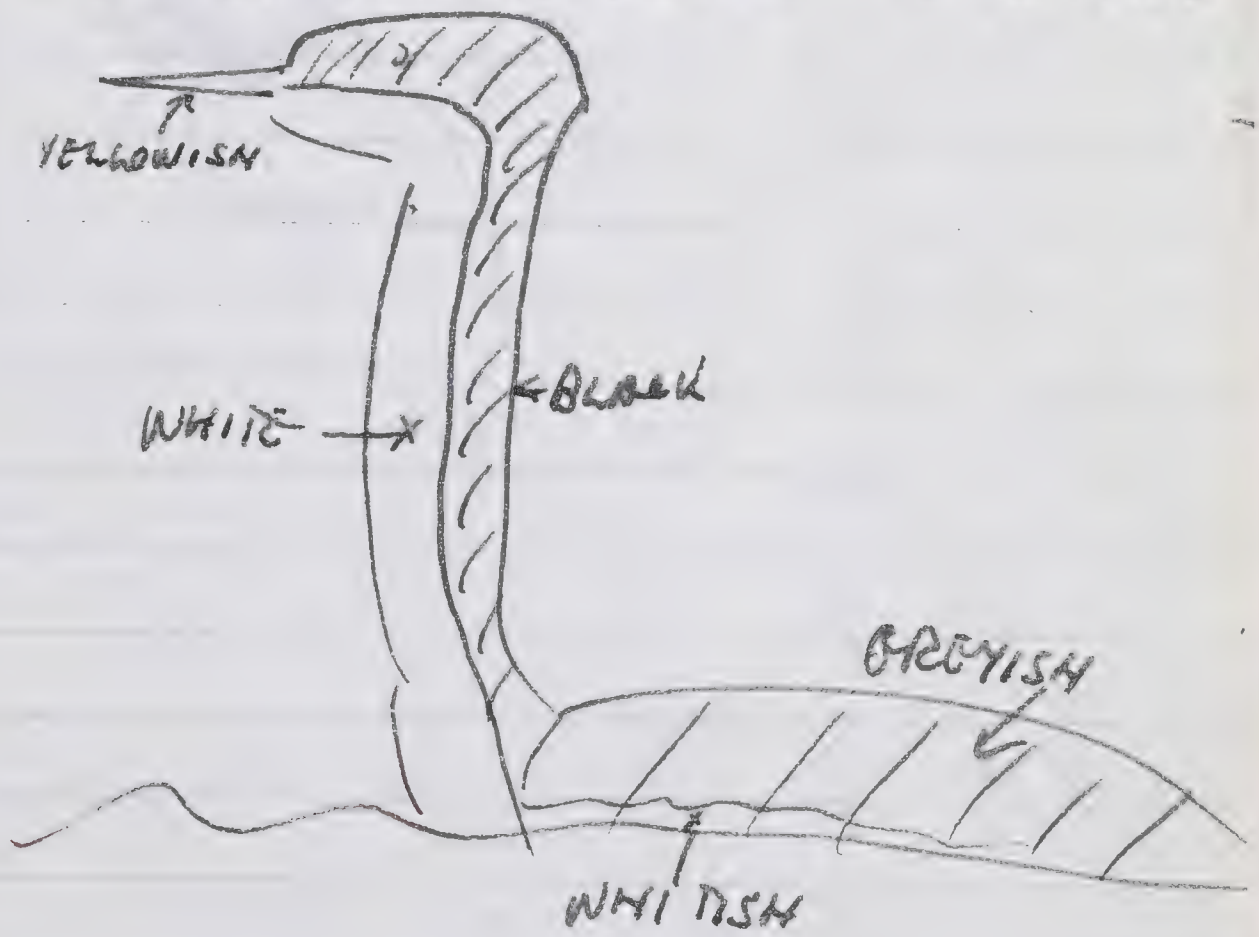
Birds

C. ZIEGLER
1956

WESTERN GREBE (AECHMOPHORUS OCCIDENTALIS)

APR 7 BAY FARM ISLAND, ALAMEDA CO., CALIF

9:15 AM - SAW 1 IN CHANNEL AT NW CORNER OF IS. NEAR BRIDGE. LONG NECK HELD 1 WITH HEAD + BILL POINTED HORIZONTALLY FORWARD AT RT. ∠. DIVE VERY QUICKLY WITH SEEMINGLY A KICK OF FEET AFTER DUCKING HEAD UNDER.
9:20 SAW 2 WITHIN 5 FT OF EACH OTHER - SITTING ON SURFACE FACING WIND (+ CURRENT?). WHEN 1 WOULD DIVE OTHER WOULD FOLLOW A SECOND OR 2 LATER. EVEN WHEN SEPARATED BY 30-40 FT. ONE WOULD STILL FOLLOW OTHER UNDER OCCASIONALLY. WHITE CHEEK NECK + SIDE OF NECK DOWN TO WATER LINE.



1 DIVE TIMED AT 24 SEC'S.
ANOTHER AT 19 SEC'S + ON TOP OF WATER TILL NEXT DIVE 12 SECS. THESE DIVES IN AN AREA ABOUT 20' IN DIA.

J.C. ZIEGLER
1956

AMERICAN EGRET
(CASMERODIUS ALBUS)

APR 21 BAY FARM ISLAND, ALAMEDA CO., CALIF.

9:10 AM ON → SAW 1 STANDING IN MIXED SALICORNIA AND SOME TYPE OF 12-15 INCH HIGH GRASS NEAR EDGE OF BAY WATER. NECK FOLDED WITH BILL HELD ST. FORWARD BILL GREYISH YELLOW. ON APPROACH OF GROUP NECK WAS EXTENDED + A MOMENT LATER BIRD SLOWLY FLAPPED 50 FT AWAY WITH LEGS (BLACK) DANGLING + SETTLED DOWN AGAIN. NECK QUITE FOLDED IN NOW.

PLUMES NOTICED AT BEND OF FOLDED WINGS

C. ZIEGLER
1956

MALLARD (ANAS PLATYRHYNCHOS)

FEB 18 LAKE MERRITT, OAKLAND, ALAMEDA CO., CALIF.
8:30 A.M. 2 OR 3 HUNDREDS (SOME DOMESTIC OR SEMI DOMESTIC) ON LAKE – SEEMINGLY ♂ & ♀ IN APPROX. EQUAL NUMBERS. NOT TOO MUCH DABBLING BUT QUITE A BIT OF ACTIVITY WHEN GROUPS OF OBSERVERS WALKED ALONG BANK. DUCKS COME IN CLOSE (LOOKING FOR HANDOUTS?) TO THESE GROUPS. THE DUCKS SEEMED TO TRAVEL IN GROUPS FROM 2 TO AT LEAST 6 OR 8. 1 MALE OBSERVED APPROACH ♀ & GRASPING ♀ BROWN-OR BACK OF HEAD-FEATHERS & MOUNTING. ♀ HELD UNDER WATER FOR SEVERAL SECONDS THIS INSTANCE. ♀ BROKE AWAY & WAS PURSUED BY SAME ♂ & 1 MORE ♂ BUT NO SECOND ATTEMPT AT COPULATION. GREEN HEADS OF ♂'S WHEN BIRD IS TOWARDS SUN APPEARS A LITTLE PURPLISH WITH GREENISH TINT BUT WHEN BIRD IS AWAY FROM SUN (FROM OBSERVER) HEAD IS GREEN.
9:00 AM. – SEVERAL TIMES ♂ & ♀ SEEN SWIMMING SIDE BY SIDE, A FEW ♂'S WITH 2 OR 3 ♀'S ALONGSIDE BUT WHEN MORE THAN 1 ♂ WAS ALONG SIDE ♀, THE 2 ♂'S SHOWED SOME SORT OF EXCITED BEHAVIOR: SWIMMING AROUND ♀, FACING EACH OTHER, OR QUACKING LIGHTLY – BUT NO "FIGHTING" OBSERVED.
"DABBLING" ACCOMPLISHED BY PUTTING HEAD & NECK IN WATER & KEEPING HIND-BODY ELEVATED BY PADDLING WITH FEET.
9:35 AM – ♂ MOUNTING ♀, HOLDING ♀'S HEAD

ZIEGLER 1956

PAGE 2

MALLARD (ANAS PLATYRHYNCHOS)

FEB 18 (CONT) LAKE MERRITT, OAKLAND, ALAMEDA CO., CALIF.

WITH BEAK & SINKING ♀ BODY WHEN ON TOP OF HER. ♀'S HEAD WAS THEN THRUST UNDERWATER AND ♂ "PUMPED" HIS BODY UP & DOWN FOR 2 OR 3 SECONDS. 2ND ♂ THEN SWAM OVER AND GRASPED 1ST ♂ THROAT FEATHERS WITH BILL. 1ST ♂ THEN SHAPED OFF ♂'S BACK AND SWAM BESIDE HER. BY THIS TIME 2 OR 3 MORE ♂'S HAD SWUM IN TO SCENE AND ONE OF THESE NEW ONES SWAM ALONG & DUCKING HEAD UNDER WATER & SPRAYING WATER ALONG BACK WHEN THEY STRAIGHTENED UP. ANOTHER INSTANCE OF MATING NEARBY (50' AWAY) WAS PRECEDED BY ♂ & FLYING SAME DIRECTION AND DUCKING (NOT BOWING) HEAD UP & DOWN IN UNISON 3 OR 4 TIMES. THIS WAS FOLLOWED BY MOUNTING OF ♀ BY ♂. SAME ♂ HEAD FEATHER GRASPING BY ♂ & SINKING OF ♀ WITH HER HEAD HELD OVER ALSO. ♂ PUMPING MOTIONS (EJACULATORY MOVEMENTS) FOR FIRST 2 OR 3 SECONDS TOOK PLACE WITH ♂ CLOACAL REGION OVER ♀'S UPPER TAIL COVERTS BUT THEN ♂ CLOACAL REGION WAS SLIPPED OVER THE LEFT SIDE OF ♀'S TAIL TO ALMOST MEET HER CLOACAL REGION. ♂ PUMPING MOVEMENTS CONTINUED IN THIS POSITION FOR ONLY A SECOND OR TWO WHEN HE EITHER SLIPPED OFF OR RELEASED THE ♀ VOLUNTARILY. ANOTHER ♂ WAS ALONG SIDE BUT MADE NO ATTEMPT TO INTERRUPT OR CONTINUE MATING.

ZIEGLER
1956

BALDPATE (MARECA AMERICANA)
FEB 18 LAKE MERRITT, OAKLAND, ALAMEDA CO., CALIF.

9:55 AM – 1 ♂ CLOSE TO SHORE SHOWING WHITE "PATE" ALSO BLACK CRISSUM & SHARPLY CONTRASTING WHITE BELLY SHOWING IN FRONT OF CRISSUM. PADDLED AROUND WITH NECK DRAWN IN AND HEAD RESTING ON UPPER BREAST. BILL WHITISH OR VERY LIGHT BLUISH. NO CALLING OR QUACKING. WHITE PATCH IN WING NOTICEABLE WHEN BIRD WAS STANDING ON ROCKS IN SHALLOW WATER & PREENING. COULD HEARD (SAID BY GROUP LEADER JOHN BURNS TO PROBABLY BELONG THIS SPECIES) WHEE-WAY-OOH (SOMETIMES REPEATED ONCE) LOW & "COMPLAINING". BURNS COMPARED IT TO WEAK CALIF. QUAILS CALL.

C. ZIEBLER
1956

CANVAS BACK (NYROCA VALISINERIA)

FEB 18 LAKE MERRITT, OAKLAND, ALAMEDA CO., OAKLAND

9:30 A.M. ♀ SEEN 50' FROM SHORE. RUSTY HEAD SHOWED UP WELL. TYPICAL SLANT OF FOREHEAD & BILL NOTICED. OTHERWISE SAME GENERAL OUTLINE AS MALLARD

BIEBLER
1956

LESSER SCAUP (AYTHYA AFFINIS)
FEB 18 LAKE MERRITT, OAKLAND, ALAMEDA CO., CALIF.
9:10 AM - SINGLE ♂ SEEN (30' FROM SHORE FINALLY)
YELLOWISH OR WHITISH EYE NOTICEABLE.
SEEMED TO KEEP HEAD LOWER THAN
MALLARDS - MORE "COMPACT" & CLOSER
TO WATER. BLUISH BILL & RATHER
FLASHY WHITE SIDES (CUT OFF SHARPLY
AT BLACK OF BREAST). THIS BIRD
SEEN DIVING NEAR SHORE. STAYED
UNDER 20 & SECONDS & CAME UP NEAR
SAME SPOT.
9:30 NOW 4 ♂'s CLOSE TO SHORE & ALL DIVING.
WHEN DIVING SOMETIMES HEAD IS LOWERED
& DUCK SIMPLY GIVES A THRUST OF FEET
& GOES UNDER. OTHER TIMES SLIGHT
"JUMP" GIVEN FORWARD ALMOST ABOVE
SURFACE OF WATER AS DUCK GOES UNDER

ZIEMER
1956

COMMON GOLDEN-EYE (BUCEPHALA CLANGULA)

FEB 18 LAKE MERRITT, OAKLAND, ALAMEDA CO., CALIF.
11:30 AM. ♂ + ♀ SEEN SWIMMING BY WIDELY SEPARATED. ♀ DIVE SEVERAL TIMES & STAYED UNDER AT LEAST 15-20 SECONDS. WHITE (SPECULUM?) IN ♀ WING NOTICEABLE. NO MATING ACTIVITY OR CALLING. AFTER A FEW MINUTES DUCKS WERE SEEN SWIMMING SIDE BY SIDE.

J. ZIEGLER
1956

RUDDY DUCK (OXYURA JAMAICENSIS)

FEB 18 LAKE MERRITT, OAKLAND, ALAMEDA CO., CALIF.

RUDDIES SEEN FAR OUT ON LAKE FROM 8:30 AM ON. AT 11:00 AM. SEVERAL OBSERVED CLOSE TO SHORE WITH TAILS COCKED. WHITISH PATCH ON SIDE OF HEAD NOTICEABLE ON MOST OF THEM. NOT TOO MUCH ACTIVITY (NO DIVING, MATING ETC)

C. ZIEGLER
1956

TURKEY VULTURE (CATHARTES AURA)

APR 28 WILDCAT CANYON, CONTRA COSTA CO., CALIF.

11:05 AM. SAW 1 SAILING QUITE HIGH BUT COULD SEE WHITE PATTERN UNDER WINGS & SMALL HEAD, ETC. CIRCLED 2 OR 3 TIMES 1 OR ROUND CIRCLES FOR 5 MINUTES THEN TOOK OFF SAILING NE, GIVING 1 OR 2 FLAPS, SAILING, THEN 1 OR 2 MORE FLAPS THEN JUST SAILING ON OUT OF SIGHT WITH NO MORE FLAPPING.

12:10 PM. SAW 1 OVER TENNIS COURTS ABOUT 150 - 200 FT UP SAILING OVER WITH NO FLAPPING OR CIRCLING.

BIEBER
1956

RED-TAILED HAWK (BUTEO JAMAICENSIS)

FEB 11 WILDCAT CANYON, CONTRA COSTA CO., CALIF.
10:00 AM – 1 HAWK SOARING ~~[illegible]~~ IN CIRCLES
WITHOUT NOT TOO MANY WING BEATS.
MAY HAVE BEEN ASCENDING BUT HARD
TO JUDGE ~~[illegible]~~ HEIGHT FROM GROUND.
PERCHED ON "HIGH WIRE" POWER LINE
TOWER. TOOK ONE SHORT FLIGHT
OFF OF TOWER THEN WENT BACK TO
PERCH. TOWER OVERLOOKING OPEN SLOPE
WITH ONLY FEW BUSHES.
10:30 AM – 1 MORE HAWK (1ST ONE STILL
PERCHED ON TOWER) SEEN CIRCLING WITH
FEW STROKES OF WINGS APPARENTLY
GAINING ALTITUDE. AFTER RISING
FOR A TIME, SAILING OR SOARING
ONLY USING ~~[illegible]~~ IN SPIRALLING
UPWARDS, STILL OVER APPROX. SAME
SPOT AS WHERE SEEN FIRST. NO CALL.

FEB 13 U.C. BOTANICAL GARDENS, BERKELEY, ALAMEDA CO., CALIF.
TWO SEEN TOGETHER & SINGLY SOARING
ABOVE PINE & EUCAL. HILLSIDE GIVING
FREQUENT "SQUEALING" CALLS FROM 9:30 AM
TO 1:00 PM.

FEBRUARY
1956

SHARP-SHINNED HAWK (ACCIPITER STRIATUS)

FEB 13 (NEAR CANCER RESEARCH BUILDINGS) U.C. POULTRY HUSBANDRY BLDG., BERKELEY, ALAMEDA CO., CALIF.
1:30 PM. - SAW 1 SITTING 60' OR SO UP IN BARE TREE. MOTIONLESS NO CALL. FLOCK OF PINE SISKINS NEARBY WERE NOT DISTURBED. (SEE RECORD IN PINE SISKINS FOR THIS DATE.)

21 OCTOBER 1956

CALIFORNIA QUAIL (LOPHORTYX CALIFORNICA)

FOB 11 WILDCAT CANYON, CONTRA COSTA CO., CALIFORNIA

10:45 AM – COVEY (15+) TOOK OFF FROM SLOPE IN EUCALYPTUS FOREST (ALOT OF DEAD BRUSH ON GROUND) AND LANDED ON GROUND FURTHER DOWN HILL. 1 OF SEEN TO ALIGHT IN SMALL "PUSSY WILLOW" ~~[illegible]~~ 5' UP FROM GROUND. WHIR (OF WINGS?) RATHER LOUD AS BIRDS TOOK OFF. BEFORE TAKING OFF SEVERAL BIRDS SEEN RUNNING DOWN HILLSIDE BEFORE WHOLE GROUP TOOK OFF.

ZIEGLER
1956

CLAPPER RAIL (RALLUS OBSOLETUS)

APR 7 BAY FARM ISLAND, ALAMEDA CO., CALIF
11:00 AM. SAW NEST IN SALICORNIA
30 FT FROM ROAD 50' FROM BAY EDGE
ON GROUND UNDER SALICORNIA.
ABOUT 3-4 FT ABOVE WATER LEVEL.
IDENTIFIED BY DR. MILLER AS
CLAPPER RAIL. EGGS - SMALLER
THAN SMALL HEN EGGS. LIGHT
BROWN WITH REDDISH & BLUE SPOTS
SCATTERED OVER THEM ESP. AT
LARGE END. NEST RAISED AN INCH
OR SO BY PULLED TOGETHER DEAD
SALICORNIA TWIGS. CAVITY ABOUT
4-5 INCHES ACROSS. NEST ABOUT 8
INCHES ACROSS. SALICORNIA BRANCHES
OVER NEST BUT PRETTY THIN. SO
THAT EGGS COULD BE SEEN EASILY
UP TO 10-15 FT AWAY — SALICORNIA
MORE THIN BUT UP TO 1 FOOT THICK.
FOOT-DEEP CREVICES 2-3 INCHES WIDE CAUSED BY
DRYING OF MUD RAN THRU AREA
AROUND NEST.

APR 21 REMAINS (WINGS & BREAST FEATHERS) FOUND
ON SPIT OF SALICORNIA & MUD ½ MI.
SW GOLF CLUB HOUSE. IDENT. BY DR.
MILLER. WINGS SHORT, ROUNDED &
PLAIN BROWN, BREAST F'S MORE REDDISH
BROWN, SOME F'S UNDER WING NEAR BODY
AND SOME AT BASE OF BREAST, BROWN
BARRED WITH WHITE. MUST HAVE
BEEN AT LEAST A WEEK OR SO OLDER
MORE.

SIEGLER
1956

AMERICAN COOT (FULICA AMERICANA)

FEB 18 LAKE MERRITT, OAKLAND, ALAMEDA CO., CALIF.
8:30AM → AT LEAST 100 IN SIGHT FROM VARIOUS POINTS AROUND LAKE. THESE DIDN'T SEEM AS INTERESTED IN OBSERVERS AT LAKE MERRITT AS MALLARDS DID. BUT 2 OR 3 WOULD COME IN TO SWIM AROUND IN FRONT OF GROUPS OF OBSERVERS. LEGS SET RATHER FAR BACK ON UNDERSIDE OF BIRD. SLATY GREY WITH WHITE BILL ON WATER. NO DIVING NOTICED. HEAD & NECK APPEARS DARKER GREY THAN REST OF BODY. AT CLOSE RANGE WHITE TRACE ON EDGE OF TAIL(?) WHEN SWIMMING AWAY RAPIDLY THE WHOLE BODY & HEAD SEEMS TO "DUMP" FORWARD & BACKWARD.

ZIEGLER
1956

SEMIPALMATED PLOVER (CHARADRIUS SEMIPALMATUS)

APR 21 BAY FARM ISLAND, ALAMEDA CO., CALIF.
11:05 AM SAW 2 BESIDE ONE ANOTHER ON MUD BAR NEAR SHORE. 1 (SLIGHTLY MORE BOLDLY MARKED WITH BLACK RINGS.) SIDLED UP TO OTHER, BOTH FACING SAME DIRECTION & WHILE NOT TOUCHING IT, SEEMED TO FORCE IT TO ONE SIDE. IF ONE RAN FORWARD OR TO THE SIDE THE OTHER MIGHT FOLLOW OR MIGHT CIRCLE AROUND & BEGIN THE SAME SIDEWISE "BUMPING" AGAIN. THE LESS BOLDLY MARKED ONE FINALLY FLEW OFF 10 FT. & STOOD QUIETLY ON MUD.
11:10 AM SAW & HEARD 1 WITH NO OTHER BIRDS WITHIN 5 FT OF IT GIVING CHUCK-CHUCK-CHUCK ETC. QUICKLY & RUN TOGETHER. DR MINNER SAYS INTIMIDATION OR WARNING SORT OF NOTE. RED-BACKED SANDPIPER WAS 5' AWAY & ON OTHER SIDE OF PLOVER WERE MANY WESTERN S'PIPERS ASSUMA.

BEOLER
1956

KILLDEER (OXYECHUS VOCIFERUS)

APR 7 BAY FARM ISLAND, ALAMEDA CO., CALIF.
10:AM. SAW BIRD ON NEST - ALLOWED APPROACH OF GROUP TO WITHIN 8 FT. BEFORE FLUSHING. HARD TO SEE BIRD ON NEST. BIRD FLEW 15 FT. THEN GAVE LOW NOTES DE-DE-DE ETC RUN TOGETHER. WHILE DROOPING WINGS & SHOWING RUSTY RUMP & TAIL COLOR. THEN PICKED UP INSECT & ATE IT BEFORE RUNNING FROM GROUP GIVING KILL-DE CALL. HEARD IN NEST OF FEW GRASS BLADES - ROUNDISH - WHITISH WITH BLACK SPECKLING. GIVING GENERAL GREYISH APPEARANCE AT DISTANCE. GROUP STEPPED BACK TO ABOUT 20 FT FROM NEST & AFTER FEW MINUTES BIRD RAN UP TO WITHIN 5' OF NEST ON SIDE OPPOSITE FROM GROUP & WENT THRU "BROKEN WING" OR INJURED ACT AGAIN CALLING DE-DE-DE-DE AS SHE DID SO, THEN RETREATED ABOUT 30 FT. ON OTHER SIDE OF NEST & FEEDS US GIVING KILLDEE CALLS OCCASIONALLY, AT 10:15 BIRD APPROACHED NEST AGAIN & "SET" AGAIN FACING GROUP

APR 21 11:35 AM. SAME NEST AS ON APR 7 STILL OCCUPIED. BIRD ALLOWED APPROACH OF DR MILLER TO 3 FT. STRETCHED OT HAND TO WITHIN 6 IN. BEFORE BIRD ROSE OFF NEST & WITH SPREAD WINGS GAVE DEE DEE DEE CALLS FACING DR MILLER 2 FT AWAY. SET ON NEST AGAIN & DR MILLER ALMOST TOUCHED BILL BEFORE BIRD ROSE AGAIN AW THIS TIME WING

G. ZIEGLER
1956

KILLDEER (OXYECHUS VOCIFERUS)

APR 21 (CONT) BAY FARM ISLAND, ALAMEDA CO, CALIF.

DEE-BEEFIE CONN. AS DR MILLER BACKED AWAY BIRD SETTLED ON NEST AGAIN. WHEN OFF NEST RED TAIL SPREAD TOWARD DR MILLER - QUITE SHOWY DISPLAY WITH BIRD CROUCHED & WINGS HALF SPREAD. WHEN BIRD WAS ON EGGS BELLY + LOWER BREAST FEATHERS SPREAD OVER EDGE OF CLUTCH OF EGGS (4)

ZIEGLER
1956

HUDSONIAN CURLEW (PHAEOPUS HUDSONICUS)

APR 21 BAY FARM ISLAND, ALAMEDA CO., CALIF.
11:05 AM SAW 1 WADING UP TO BELLY IN WATER. STICKING BILL INTO WATER BUT WITH NOT TOO MUCH PROBING (HEAD NOT BOBBED UP + DOWN) TWO FROM TIME TO TIME HEAD GOES COMPLETELY UNDER WATER. DOWNCURVED BILL.

J.C. Ziegler
1956

MARBLED GODWIT (LIMOSA FEDOA)

APR 21 BAY FARM ISLAND, ALAMEDA CO., CALIF.

10:30 AM. - SAW 7 ALONG MUD BARS CLOSE TO SALICORNIA MARSH EDGE. 3 RESTING ON ~~LAND~~ MUD (2 ON ONE LEG) OTHERS PROBING IN 4-6 IN. DEEP WATER SOMETIMES WITH HEAD ALSO BENEATH WATER. USED DEEPER WATER THAN DOWITCHERS, BLACKBELLIED PLOVER, ETC IN GROUP OF SHOREBIRD FEEDING. WHEN FEEDING BILL IS PROBED IN MUD (UNDER WATER) IN VARIOUS PLACES UNTIL FROM TIME TO TIME IT WAS KEPT IN ONE SPOT APPARENTLY PROBING DEEPER AFTER SOMETHING AT THAT SPOT. BILL SLIGHTLY UPTURNED. WHEN RESTING (?) HEAD HELD BACK ALONG SIDE OF BODY. (UNDER WING?). IN FLIGHT TOP OF REAR ½ OF WING BROWNISH BUFF COLOR. BILL & HEAD HELD ALMOST ST. OUT IN FRONT. BILL DEPRESSED 10° ± FROM HORIZONTAL.

C. ZIEGLER
1956

~~SHORT~~ LONG-BILLED DOWITCHER (LIMNODROMUS GRISEUS?)

APR 7 BAY FARM ISLAND, ALAMEDA CO., CALIF.

10:45 AM - SAW 12 OR SO IN MUD BOTTOMED POOL IN "ISLAND" OF MUD IN SAN LEANDRO POOL ABOUT 25' LONG & 10 FT WIDE MUD ISLAND ABOUT TWICE THIS LONG & WIDE - NOT TIDAL. ABOUT 3 INCHES DEEP. BIRDS WERE PROBING IN WATER NEAR MARGIN AMONG WITH HALF A DOZ OR SO WESTERN SANDPIPERS. WHEN GROUP APPROACHED BUNCH FLEW OFF, SHOWING WHITE BAR UP BACK. BILLS LONG & STRAIGHT. SUGGESTION OF DARK & LIGHT STRIPES.

11:30 AM SAW 3 ON EDGE OF MUD & PEBBLE BAR AS TIDE WENT OUT FROM NW CORNER OF ISLAND, ~~[illegible]~~ WATER 2 INCHES DEEP, ~~[illegible]~~ FEEDING. ~~BLACK & WHITE WING PATTERN NOTICED IN FLIGHT.~~ 3 WILLET STOOD A 2 FT. AWAY NOT FEEDING, JUST STANDING. HEAD & NECK. FINALLY FLEW OFF TOGETHER. DOWITCHERS FED BY STANDING IN 2 INCH WATER, OR SHUFFLING UP TO MUDDY SHORE, WITH HEADS DOWN AND CONSTANT UP & DOWN PROBING WITH LONG BILL, THEN A FEW STEPS FORWARD & MORE PROBING. CALL WHEN LANDING "CHEK-CHEK - CHEE WEE - WEE - WEE" - - - - - QUITE NASAL.

2 SEEN THAT WERE QUITE CINNAMON-COLORED FROM HEAD BACK TO FIRST OF BELLY & MIDDLE OF BACK - OTHERWISE MORE GREYISH BROWN HERE.

ZIEGLER
1956

SHORT-BILLED DOWITCHER (LIMNODROMUS ?)

APR 8 POINT ISABEL, CONTRA COSTA CO., CALIF.

9:00 AM. CALLING CHEE CHEE CHWAY O (— — ~ —) 2 OR 3 TIMES WHILE ALIGHTING. NASAL. AT LEAST 100 SEEN FEEDING AT LOW TIDE THIS A.M. ALONG SHORE ROAD AND ON POINT. ALSO CALL CHWEE-CHWEE! IN FLIGHT SOMETIMES REPEATED ONCE AND OCC. MORE OFTEN.

APR 21 BAY FARM ISLAND, ALAMEDA CO., CALIF.

9:10 AM FLOCK OF ABOUT 30 (BROKEN INTO 2 OR 3 GROUPS AT TIMES) FLYING SHORT DISTANCES FROM TIME TO TIME IN SAN LEANDRO. TIDE WAS HIGH SO WATER MAY REACH UP INTO SAN LEANDRO FOR SHORT DISTANCE. 1 WILLET FLYING NEAR THEM + LIGHTING ALSO.

C. ZIEGLER
1956

WESTERN SANDPIPER (ERECUNETES MAURI)

APR 21 BAY FARM ISLAND, ALAMEDA CO., CALIF.
10:20 AM · FLOCK OF 20± SEEN ON SMALL "ISLAND" OF MUD 6' LONG & 4' ACROSS AT EDGE OF SPARTINA — FIRST MUD EXPOSED BY RECEDING TIDE. 1 SEMIPALMATED PLOVER WITH THEM. BIRDS STAYED MOSTLY ON MUD ABOUT ½ IN DEEP WATER, ONLY 2 OR 3 INCHES FROM EACH OTHER — MOVING STEADILY PECKING AT AROUND OCC. NO PECKING OF EACH OTHER OR NOTES, FIGHTING ETC. NOTICED. AS SPIT OF MUD GREW LARGER MORE FLOCKS OF 20 OR 30 JOINED IN & BEGAN FEEDING. BILLS PUT INTO MUD, 1 OR 2 PROBES, BILL PULLED UP & BIRD WADDLED OR SOMETIMES RAN A FEW INCHES OR A FOOT AWAY & BEGAN FEEDING AGAIN.

.ZIEGLER
1956

RING-BILLED GULL (LARUS ~~CANUS~~ DELAWARENSIS)

FEB 18 LAKE MERRITT, OAKLAND, ALAMEDA CO., CALIF.

8 OR 10+ ADULTS & IMMATURE SEEN ON LAKE THIS A.M. (MOSTLY IMM.). DEFINITE BAND ON TAIL OF IMM. AS MENTIONED IN PETERSONS QUITE NOTICEABLE IN FIELD. ALSO BLACK RING ENCIRCLING FORWARD PART OF BILL, ALTHO ON SOME IMM.'S NEARLY WHOLE TIP WAS BLACK.

C. ZEGLER
1956

CASPIAN TERN (HYDROPROGNE CASPIA)

APR 7 BAYFARM ISLAND, ALAMEDA CO., CALIF.
9:15 AM ON — SAW 3 OR 4 (OR 2 AT A TIME) FLYING UP OR DOWN CHANNEL AT NW CORNER OF IS. BLACK CAP, RED BILL, LIGHT GREY MANTLE, BLACK UNDER PRIMARIES.

APR 21 ~~BAY~~ 9:15 AM - SAW 2 FEEDING ABOUT 50' OUT FROM EDGE OF SALICORNIA MARSH (ABOUT 200 FT. FROM HIGH DRY ROAD) BIRDS CIRCLED IN AREA ABOUT 200 FT IN DIA. FLYING ABOUT 30 FT ABOVE WATER, OCC. GIVING NASAL HARSH GARRAH NOTE (1 DRAWN-OUT NOTE GIVEN EVERY SECOND OR TWO WHEN BIRD IS CROSSING). WHEN SEEKING FOOD WINGS FLAPPED STEADILY AND BILL HELD ALMOST STRAIGHT DOWN. AT 9:25 ONE SEEN FLYING JUST ABOVE WATER DIPPING ~~HIS~~ ITS BILL TO TOUCH WATER FOR A FEW INCHES EVERY 15 FT OR SO. WITHOUT STOPPING IN FLIGHT. DIPPED BILL 6 OR 7 TIMES ~~EACH~~ IN THE SINGLE "RUN" THEN SWOOPED UP & RESUMED CIRCLING. "GARRAH" NOTE GIVEN BY ~~2 B~~ AT LEAST 1 OF 2 BIRDS AS ONE DIVED TOWARDS & FLEW ALONG SIDE THE OTHER - THEN THEY SEPARATED WITH 1 STILL GIVING NOTE 2 OR 3 TIMES AS IT FLEW OFF TO "HUNT" AGAIN. 1 AMERICAN EGRET STANDING QUIETLY IN SALIC ABOUT 75' AWAY FROM WHERE TERNS WERE FEEDING. WHEN FOOD(?) WAS SIGHTED BIRD MERELY SLOWED WING BEAT & POINTING BODY DOWN SLIGHTLY

C. ZIEGLER
1956

CASPIAN TERN (HYDROPROGNE CASPIA)

BOR21 (CONT)

BAY FARM ISLAND, ALAMEDA CO., CALIF.
AND BIRD DROPPED TOWARD WATER. DID NOT GO TOO FAR UNDERWATER — JUST PART OF BODY ~~AN~~ INCLUDING TOP. WINGS HELD PARTLY OUT THEN FLAPPING UP SLOWLY INTO AIR AGAIN. FROM TIME TO TIME UP TO 10:00 AM OTHER CASPIANS JOINED THE ORIGINAL 2 UNTIL THERE WERE 8 OR 9 CIRCLING. WHEN BIRDS APPARENTLY WANTED TO MAKE SPEED AS FROM THE FEEDING AREA AWAY (TO ANOTHER?) THE HEAD & BILL WERE POINTED ALMOST ST. FORWARD & WING BEAT SEEMED TO BE QUICKENED SLIGHTLY. IF DIVING TOWARDS ANOTHER BIRD DIVING WAS USED OCCASIONALLY. ALSO BIRDS HOVERED SUDDENLY WHEN THEY POSSIBLY SIGHTED A FISH WHILE FLAPPING AROUND SLOWLY, RAISING THE FORWARD PART OF BODY BUT WITH HEAD & BILL STILL HELD ALMOST ST. DOWN.

ZIEBLER
1956

FORSTERS TERN. (STERNA FORSTERI)

APR7 BAY FARM ISLAND, ALAMEDA CO., CALIF.

11:35AM 2 FEEDING OUT IN BAY BOTH HOVERED 20 FT OR SO OVER WATER ~~THEN~~ (OR FLEW JUST ENOUGH TO KEEP THEM STATIONARY, INTO WIND) THEN STOPPED FLAPPING & DROPPED TO WATER 11:40 JOINED BY 3 MORE & ALL FOUR GIVING SHWEE - SHWEE - SHWEE CALLS AFTER DIVE ~~AND~~, BIRD FLAPS SLOWLY UP FROM WATER AGAIN, TO HOVER MORE. ON WATER ONLY A SECOND OR SO.

APR21 9:35AM - 3 FLYING OVER SAME MARSH CALLING "PIT CHEER" SORT OF HIGH NASAL QUALITY.

PIT. CHEER

ALSO FEW MINUTES LATER HEARD ONE GIVE A HARSH NOTE ABOUT SAME QUALITY AS CASPIAN'S BUT NOT BROKEN IN MIDDLE — KEERR SHORTLY DESCENDING KEERR GIVEN 2 OR 3 TIMES ABOUT A SECOND APART.

2

ZIEGLER
1956

GREAT HORNED OWL (BUBO VIRGINIANUS)

MAY 19 WILDCAT CANYON, CONTRA COSTA Co., CALIF.

10:20 SAW A YOUNG A LITTLE OVER A FOOT LONG PERCHED ON EUCAL. BRANCH ABOUT 20 FT OFF OF GROUND AT EDGE OF EUCAL. WOODS & GRASSY HILLSIDE. BIRD JUST STOOD STILL & FACED US. IRIS YELLOW

DOWNY WHITE HEAD. BACK LIGHT TAN COLORED. "HORNS" SHOWED SLIGHTLY ON HEAD. ALLOWED APPROACH TO 1 FOOT BELOW BRANCH. SEEMED MUCH SMALLER UP CLOSE - PROBABLY ABOUT 9 INCHES LONG. BIRD JUST STARED DOWN AT US WITHOUT FLY/MOVE.

C. ZIEGLER
1956

ANNA HUMMINGBIRD (CALYPTE ANNA)

MAY 5 WILDCAT CANYON, CONTRA COSTA CO., CALIF.
11:10 AM 1 ♂ IN TOP OF 6' BACCHARIS BUSH ON BARE TWIG (PERCH JUST VACATED BY SPOTTED TOWHEE)
THROAT COLOR PURPLISH RED NOT JUST STRAIGHT RED.
ORANGE-CROWNED WARBLER 1 FT BELOW IT IN SAME BUSH.
WHEN WARBLER MOVED HUMMER WOULD MOVE SLIGHTLY BUT OTHERWISE NOT NOTICED. THROAT F'S SLIGHTLY SPREAD OUT BY HUMMER FROM TIME TO TIME ~~[illegible]~~ (WHEN WARBLER WAS ABSENT ALSO)

C. ZIEGLER
1956

RUFOUS HUMMINGBIRD (SELASPHORUS RUFUS)

MAY 5 WILDCAT CANYON, CONTRA COSTA CO., CALIF

10:30 AM SAW ONE PERCHED ON END OF 15 FT HIGH ELDERBERRY BUSH IN WILD BACK YARD VS. SAW THE SOLID RUFOUS BACK, NO CALLING, BUT HUM BIRDS FLYING NEARBY A MOMENT BEFORE THIS ONE WAS SIGHTED GAVE A SHORT BUZZ ABOUT A SECOND LONG. MAY HAVE BEEN THIS ONE.

10:40 SAME (?) BIRD PERCHED ON SAME TWIG IN LIGHT RAIN. MOVED TO HIGHER TWIG. FEATHERS SLIGHTLY FLUFFED. AT NO TIME DID THE WINGS APPEAR VERY GREENISH - JUST RUFOUS - GIVING APPEARANCE OF ~~BLUE~~ RUFOUS COLORED BIRD WITH SLIGHTLY WINTER BERRY & RED TAIL COVT PATCH. THROAT PATCH VERY DARK LOOKING EXCEPT AT CERTAIN ANGLES WHEN IT LOOKED DEEP RED.

. ZIEGLER
1956

RED-SHAFTED FLICKER (COLAPTES CAFER)

FE311 WILDCAT CANYON, CONTRA COSTA CO., CALIF.
9:50 AM - 2 FLEW INTO TOP OF 40' EUCALYPTUS AND PERCHED ACROSS LIMBS IN TREE RESEMBLING ROBINS. ONE CALLED "KI YU" 1 MORE SEEN PERCHED PARALLEL TO RIGHT BRANCH OF EUCALYPTUS. WHITE RUMP DISTINCTIVE. RIPARIAN ASSOC.

FE325 STRAWBERRY CANYON, ALAMEDA CO., CALIF.
8:15 AM. SAW 1 30 FT HIGH IN ~~BARE~~ LEAFLESS PLANE OR SYCAMORE TREE. SEEMED TO BE FACING INTO WIND. PERCHED MORE OR LESS PARALLEL TO LIMB (RATHER THAN ACROSS IT). NO CALLING. ROBIN LIT NEARBY IN SAME TREE ~~NEARB~~ BUT DID NOT SEEM TO BE DISTURBING TO FLICKER. "V" MARKING CLEAR ON LOWER THROAT. ANOTHER ~~BIRD~~ FLICKER(?) IN SAME TREE WAS NOTICED AT 8:25 BUT FLEW AFTER A MINUTE OR TWO. THE BIRD SEEN AT 8:15 AM FLEW TO NEARBY LAWN AT 8:27 + HOPPED THRU THE 1-2" HIGH GRASS APPARENTLY FEEDING. IT GAVE 1 TO 3 PECKS INTO THE GRASS THEN LIFTED ITS HEAD FOR A MOMENT. THEN A FEW QUICK HOPS BEFORE LOWERING ITS HEAD & PECKING AGAIN. PROBABLY SAME INDIV. FLEW LENGTH OF BASE BALL FIELD TO BEGIN PECKING AT OTHER END OF FIELD. WHITE RUMP NOTICEABLE IN FLIGHT. ~~FEATHERS AT~~ PRIMARIES SEEMED SPREAD AS BIRD FLEW BY. RED OF UNDERWINGS SHOWED UP TOO. SECOND FLICKER SEEN AT 8:25 WAS STILL PERCHED IN TOP OF 40' REDWOOD FACING WIND + PARALLEL TO TRUNK OF TREE. BIRD AT END OF BALL FIELD

ZIEGLER
1956

RED SHAFTED FLICKER (COLAPTES CAFER)

F0825 STRAWBERRY CANYON, AMADOR CO., CALIF.
(CONT)
WATCHED FOR 10 MINUTES AS IT PECKED OR PROBED IN SOD. SEVERAL STRAIGHT-DOWN PECKS GIVEN BEFORE BIRD HELD UP ITS HEAD AGAIN. AT ONE TIME BILL SEEMED STUCK RATHER DEEPLY IN GROUND WHILE SOME SHORT, RAPID PROBES WERE GIVEN.

ZIEGLER
1956

DOWNY WOODPECKER (DENDROCOPOS PUBESCENS)

MAR 3 WILDCAT CANYON, CONTRA COSTA CO., CALIF

9:00 AM SAW 1 HIGH IN EUCALYPTUS ON DEAD BRANCH. WHITE BACK VISIBLE PECKED QUIETLY A MOMENT OR SO THEN FLEW TO NEARBY EUCALYPTUS NO CALLING.

9:20 AM SAW ANOTHER IN SMALL NEWLY LEAFED WILLOWS NEAR LOWER LAKE SIDE FLEW TO NEARBY TREE & WAS LOST TO SIGHT WHEN GROUP APPROACHED.

10:45 AM - SAW 1 IN BACCHARIS FOLIOSA ON 1-2 INCH THICK TRUNK NEAR GROUND 1-2 FT. OFF GROUND TO START, THEN WORKING UPWARD & FINALLY FLYING UP INTO EUCALYPTUS. WHITE PATCH IN MIDDLE OF BACK VISIBLE.

ZIEGLER
1956

(NUTTALLORNIS BOREALIS)

OLIVE-SIDED FLYCATCHER

APR 28 WILDCAT CANYON, ~~ALAMEDA CO.~~ CONTRA COSTA CO., CALIF.

8.20 AM SAW 1 ON TOP OF WILLOW TREE ABOUT 35-40 FT UP. JUST SITTING STILL AND OCC. FACING OPP. DIRECTION. SONG FI'BAYY OO SOUNDS

(— ' —)

LIKE "FBAYY-YO" FROM DISTANCE, BUT OCC. 3 NOTES MAY BE HEARD FI — BAYY — YO WITH ACCENT ON MIDDLE NOTE. WHITE BAR IN MIDDLE OF BREAST + BELLY SEEN, + WHITE SPOTS ON SIDES OF BACK ABOVE WINGS WHEN BIRD TURNED SIDEWAYS.

8.35 AM BIRD DOWN AT SAMPERCH AFTER HAVING FLOWN DOWN A FEW MINUTES AGO. SAME SITTING STILL + CALLING EVERY ~~[illegible]~~ MINUTE OR SO.

ZIEGLER
1956

HORNED LARK (OTOCORIS ALPESTRIS)

APR 7 BAY FARM ISLAND, ALAMEDA CO., CALIF.

10:35. – MEMBER OF GROUP FLUSHED HORNED LARK & FOUND NEST. NEST ABOUT 2½ INCHES ACROSS & 2 INCHES DEEP LINED WITH FINE GRASS, A PIECE OF WASTE COTTON CLOTH & A FEATHER. EGGS ABOUT ¾ X ½ INCH. LIGHT BROWN WITH VERY FINE ~~BLACK~~ BROWN SPECKS. GRASS HERE FAIRLY DRY & ONLY A COUPLE OF INCHES HIGH, GROUND WITH MANY ~~FINE~~ SMALL ROCKS.

APR 21 11:45 AM. SAME NEST AS ON APR 7 HAD 2 YOUNG (ABOUT 3 DAYS OLD ACCORD. TO DR MILLER) BROWN SANDY COLORED BLENDING IN WITH DRY GRASS & SOIL AROUND NEST. INSIDE OF MOUTH REDDISH ORANGE, RIM OF MOUTH YELLOW. DR MILLER ALSO POINTED OUT 3 OR 4 SMALL FLAKES OF ROCK PLACED BESIDE NEST APPARENTLY TO ACT AS SOME SORT OF PORCH OR ENTRY WAY TO NEST – PERHAPS AS IN WET WEATHER WHEN PARENTS FEET MIGHT BE WET OR MUDDY OR WHEN GROUND AROUND NEST MIGHT BE WET.

C. ZIEGLER
1956

CLIFF SWALLOW (PETROCHELIDON AURIFRONS)

APR 21 BAY FARM ISLAND, ALAMEDA CO., CALIF.
9:30 AM. 1 SOON FLYING 6 FT.
OVER SONICORNIA - ONLY IN SIGHT
FOR LESS THEN A MINUTE AND
NO FEEDING SEEN.

M.G. ZIEBLER
1956

STELLER'S JAY (CYANOCITTA STELLERI)

FEB 11. WILDCAT CANYON, CONTRA COSTA CO., CALIF.

9:00AM - SAW JAY IN EUCALYPTUS TREE (20' high) ON BRUSHY HILLSIDE. NO CALLING. SEEMED TO SEE GROUP OF US FLEW OFF DOWN HILLSIDE FROM ROAD. ONE MORE SEEN HIGH WARBLE THRU EUCALYPTUS TREES. STILL NO CALL

9:20AM - SAME 2 JAYS SEEN TOGETHER 100 FT OR SO UP IN EUCALYPTUS SITTING WITHIN 2 FT. OF EACH OTHER. ONE FLEW GIVING CALL "RAASH"! BIRDS PECKED TOWARDS LEAVES OCCASIONALLY BUT MAYBE NOT FEEDING. - JUST SEEMED RANDOM MOVEMENTS ALONG WITH OCCASIONAL TAIL ~~FLITTING~~ MOVEMENT TO ONE SIDE OR OTHER.

FEB 13 U.C. BOTANICAL GARDENS, BERKELEY, ALAMEDA CO. CALIF.

9:45 AM SAW 4 STELLERS SITTING TOGETHER (WITHIN 6' OF EACH OTHER) HIGH (50') IN LEAFLESS TREE. NO "FIGHTING" OR "SQUAWKING" ACTIONS. NO FEEDING - JUST SEEMED TO BE SITTING THERE.

10:50 AM - 2 SEPARATE JAYS IN TREES GAVE RATHER A RASPING "BUZZ" - SORT OF LIKE A DOOR CREAKING OR GRINDING - HARD TO DESCRIBE. NO PARTICULAR ACTIVITY WAS GOING ON WHEN THIS SOUND WAS GIVEN. - ONCE BIRD WAS IN PINE TOP A 100 YARDS AWAY AND AGAIN WHEN WITHIN 15' OF US IN BUSH THE CALL WAS GIVEN.

FEB 25 STRAWBERRY CANYON ALAMEDA CO., CALIF

SAW 2 AT 9:00 AM AMONG WIRE FENCE IN GROUP OF ORNAMENTAL SHRUBS. BIRDS STAYED IN UNDERBRUSH WHEN GROUP OF OBSERVERS WAS NEARBY BUT 1 OF BIRDS

OCTOBER 1956

STELLER'S JAY (CYANOCITTA STELLERI)

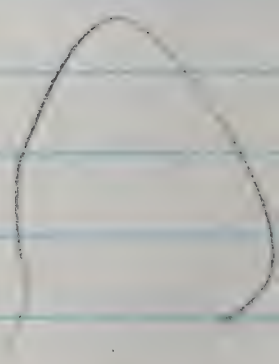
FEB 25 (PAGE 2) STRAWBERRY CANYON, ALAMEDA CO., CALIF.

FLEW 5' UP IN BUSH & GAVE 2 "SHEBAH"! CALLS, PAUSED 5 SEC'S & GAVE 2 MORE OF THESE LOUD SQUAWKING CALLS. CREST ELEVATED & CONSPICUOUS. 5 MIN.'S LATER ANOTHER (OR SAME?) BIRD IN EUCALYPTUS TREES WAS GIVING SHOOK - SHOOK (MAYBE 5 TIMES) ETC (OR CHOOK-CHOOK ETC.) CALL. LOUD & DEFINITE & RAPID. ANOTHER CALL GIVEN A FEW MINUTES LATER WAS CHEW - CHEW ETC. MAYBE 5 TIMES - SLOWER THAN 'SHOOK' CALL

ZIEGLER
1956

SCRUB JAY (AMPHELOCOMA COERULESCENS)

FEB 11. WILDCAT CANYON, CONTRA COSTA CO., CALIF.
10:15 AM. – 1 JAY PERCHED QUIETLY ON
BACHARIS BUSH TOP ON OPEN HILLSIDE & KEPT FACING GROUP
OF US BUT NO MOTION ON PART OF BIRD.
LIGHT-COLORED UNDERPARTS NOTICEABLE.
FLEW DOWN SLOPE WITH SERIES OF
FLAPS + SHORT GLIDES. TAIL SPREAD
DURING ALIGHTING. A FEW MINUTES
LATER SAME BIRD(?) SEEN ABOVE
STREAM. CALL UPON ALIGHTING "WHOOD"



SEPTEMBER 1956

BUSHTIT (PARUS MINIMUS)

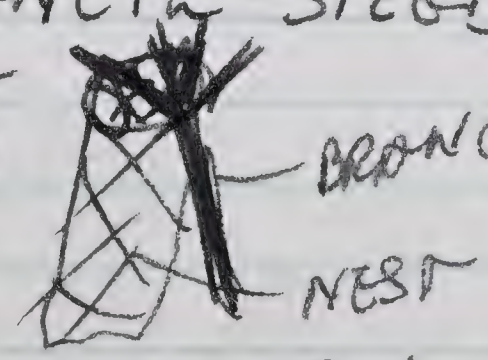
FEB 11 WILDCAT CANYON, CONTRA COSTA CO., CALIF.

9:40 AM - SAW FLOCK ~~WAS~~ FLYING BY 1'S & 2'S FROM OAK BESS ROOD TO SOME TYPE OF WILLOW. ABOUT 12-14 BIRDS. CALLING NOTES ZEE-ZEE-ZEE (ALL RUN TOGETHER) AS BIRDS WORKED THRU TREES SEEMINGLY INSPECTING LEAVES IN A RATHER THORO FASHION. TREES ON SUNNY BRUSHY SLOPE.

9:50 AM - SAME FLOCK WORKING THRU PUSSY WILLOWS" RIPARIAN ASSOCIATION

MAY 5 WILDCAT CANYON, CONTRA COSTA CO., CALIF.

10:05 AM TWO AT NEST IN 6' BRACHARIS BUSH HIGH ON NE FACING SLOPE. NEST NOT APPARENTLY CLOSELY BUT SEEMED TO BE ABOUT 6" LONG AND 2 OR 3 INCHES THICK HANGING IN TOP 10 INCHES OF BUSH. BIRDS FLITTING CLOSE TO BUSH. I OBSERVER APPROACHED & DESCRIBED NEST FOR GROUP — NEST ABOUT 8" LONG, COBWEBS & MOSS. HOLE 1½ IN DIA. GOING INTO SIDE OF TOP OF NEST. BOTH BUSHTITS FLEW ~~AW~~ IN TO BUSH WITH MOUTHFULL OF MOSS. I ENTERED NEST & LEFT MOSS & CAME OUT. OTHER ENTERED & LEFT MOSS & CAME OUT, NEST SUPPORTED BY PENCIL-SIZED TWIG NEAR BRANCHING



I CAME BACK WITH COBWEBS & LEFT THEM IN NEST & IMMEDIATELY CAME OUT AGAIN. ALSO SOME LICHENS FOUND IN NEST. BIRDS LEFT NEST FOR ABOUT 5 MINUTES THEN

ZIEGLER
1956

CHESNUT BACKED CHICKADEE (PARUS RUFESCENS)

FEB 11 WILDCAT CANYON, CONTRA COSTA CO., CALIF.
9:50 AM - 1, AT LEAST, WORKING THRU "PUSSY WILLOWS", NOT FEEDING BUT MAY HAVE BEEN ALARMED BY GROUP OF US. WEAK SONG OR CALL "CHICKA-DEE-DEE."

FEB 5 ~~9:10 A~~ STRAWBERRY CANYON, ALAMEDA CO., CALIF.
9:10 AM - 1 SEEN (MAYBE MORE) IN EUCALYP. TREES LOWER DOWN IN DEAD BRANCHES. SOME KIND OF NOTE - NOT HEARD WELL - BUT SOUNDED LIKE TSEE TSE TSE. SLIGHTLY SLURRED.

C. ZIEGLER
1956

BUSH-TIT (PSALTRIPARUS MINIMUS)

MAYS (CONT.) WILDCAT CANYON, CONTRA COSTA CO., CALIF.
RETURNED. NO SINGING OF CHIPPING
EVEN WITH GROUP NEARBY 15 FT AWAY.

[illegible]

C. BEBLER
1956

WREN TIT (CHAMAEA FASCIATA)

FEB 11. WILDCAT CANYON, CONTRA COSTA CO., CALIF.

9:10 AM. SAW 2 IN DEAD WEEDS & BRUSH BESIDE ROAD WORKING THRU (& FEEDING?) IN BUSHES BACHARIS SP? NEAR GROUND (3' HIGH). NO CALLS, SLOW MOVEMENTS BUT QUICK FLITS TO NEXT BUSH. TAIL HELD RATHER HIGH ABOVE BACK. WHITE EYE NOT NOTICEABLE. AT 30'. TIT CALLED OR SANG SOME KIND OF BUZZ - NOT TOO LONG (2 OR 3 SEC'S), SHORT (½ SEC) INSECT-LIKE BUZZ GIVEN BY BIRDS WHEN SEEN FEEDING. 10 MIN'S LATER.

9:30 AM - SONG OF WREN TIT WHILE 100 YDS OFF ~~NEAR~~ 2 SEEN AT 9:10 AM CHIP - CHIP - CHIP - ~~CHE~~ STARTING SLOW BUT "ACCELERATING" & RUNNING TOGETHER TOWARDS END. NEARLY SAME PITCH - DURATION 2-3 SEC'S.

9:45 AM - TIT CALLING (BUZZES) FROM SAME OAK WITH FLOCK OF BUSH-TITS.

G. ZIEGLER
1956

CALIFORNIA THRASHER (TOXOSTOMA REDIVIVUM)

FEB 13 U. C. BOTANICAL GARDENS, BERKELEY, ALAMEDA CO., CALIF.
11:15 AM - HEARD THEN SAW SINGING BIRD ABOUT 20' UP IN DEAD SMALL TREE. CURVED BILL NOTICEABLE. SONG - EACH PHRASE GIVEN TWICE MOST OF TIME EXCEPT FOR ONE "PETO-PETO-PETO-PETO-PETO" HEARD IN THIS NUMBER (5) SEVERAL TIMES. SONG CONTINUED FOR PERHAPS A MINUTE OR SO AT A TIME THEN A MINUTE OR TWO OF SILENCE. BIRD BROKE OF SINGING EACH TIME A STELLER'S JAY CALLED FROM NEARBY PINES, THEN SANG AGAIN WHEN JAY STOPPED.

OCTOBER
1956

ROBIN (TURDUS MIGRATORIUS)

MAR ~~FEB~~ 3 WILD CAT CANYON, CONTRA COSTA CO., CALIF.
8:30 AM SAW 1 ON MUDDY SLOPE WITH SOME FRESH GRASS SPROUTING. KEPT HIS BACK TO GROUP OF OBSERVERS AS HE MOVED AWAY ON GROUND.
9:45 AM 2ND ROBIN (BREAST NOT AS BRIGHT ORANGE AS FIRST BIRD'S) JOINED 1ST & BOTH FED FOR 5 MINUTES WITHIN 5' OF EACH OTHER.

ZIEGLER
1956

VARIED THRUSH (IXOREUS NAEVIUS)

MAR 3 WILDCAT CANYON, CONTRA COSTA CO., CALIF

10:00 AM - SAW 3 SITTING 50-60' UP IN EUCALYPTUS, ABOUT 4' APART NO SINGING, OR OTHER ACTIVITY. JUST SITTING STILL. ORANGE THROAT + BREAST WITH BLACK BAR SHOWED UP CLEARLY ON ONE FACING US. FLEW OFF TOGETHER AT 10:10 AM.

.ZIEGLER
1956

HERMIT THRUSH (HYLOCICHLA GUTTATA)

FEB 13 U.C. BOTANICAL GARDENS, BERKELEY, ALAMEDA CO., CALIF

10:15AM - SAW 1 ON CHICKEN MANURE PATCH BESIDE PATH. SLOW MOVEMENTS, NO SCRATCHING AT GROUND. TAIL ONLY VERY SLIGHTLY REDDISH, NO TAIL RAISING. SMALL FLYING INSECTS FLYING OVER OPEN MANURE PATCH. MAYBE THRUSH WAS EATING THOSE THAT LIT OR THOSE OTHERS CRAWLING ON GROUND. 11:00AM - 3 OR 4 MORE NOTICED AROUND PATHS & ON GROUND IN BUSHES. 2 OR 3 TIMES TAIL WAS RAISED ACCOMPANIED BY A WING FLUTTER. QUIET BIRDS - BOTH IN ACTION & VOICE. SHY & EASILY DISTURBED, SO, BUT WHEN OBSERVERS STILL THEY SEEM TO CARRY ON ACTIVITY NEARBY APPROACHING WITHIN 20-30 FT. OR SO.

C. ZIEGLER
1956

SOLITARY VIREO (VIREO SOLITARIUS)

MAY 5 WILDCAT CANYON, CONTRA COSTA CO., CALIF.
9:10 AM. SAW 1 (OR MORE NOT 2 TOGETHER AT ONCE) MOVING THRU LIVE OAK FEEDING(?) AND CALLING. SEEME, SEE-YOU, SEEME, SEEYOU, SEE YOU, ETC.

— ' — — — — — , — , — , — , — ETC

EPEN "SEEME" ~~[illegible]~~ (OR "SEE-YOU")

ABOUT 10 OR 15 SECONDS APART. ABOUT SAME QUALITY AS RED-EYED VIREO BACK EAST OR PERHAPS A VERY LITTLE HOARSER BUT NOT AS MUCH AS YELLOW-THROATED VIREO. NO SET ORDER OF "SEEME'S" AND "SEE-YOU'S".

C. ZIEGLER
1956

WARBLING VIREO (VIREO GILVUS)

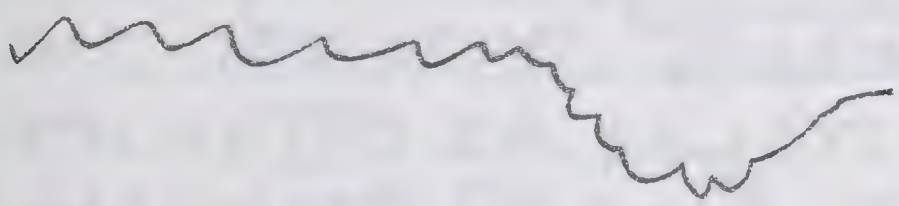
MAY 19 WILDCAT CANYON, CONTRA COSTA CO., CALIF
8:35 AM SAW, ♂ ABOUT 25' FT UP IN ~~[illegible]~~ IN ~~[illegible]~~ OAK GROVE AT CREEK GROVE PICNIC AREA NEAR TENNIS COURTS IN TILDEN PARK GIVING "WARBLING" SONG [illegible] ABOUT 1-2 SEC'S LONG. WORKING SLOWLY THRU FOLIAGE OF OAK TREES, WHEN OTHER BIRDS WERE NEAR OR SOMETIMES AT OTHER TIMES BIRD GAVE A SCOLDING-LIKE NOTE "CHWAHH" ABOUT ½ SEC LONG SPACED A COUPLE OF SEC'S APART — LIKE A WEAK SPOTTED TOWHEE'S "SCHWAAH" CALL.

C. ZIEGLER
1956

ORANGE-CROWNED WARBLER
(VERMIVORA CELATA)

AOR28 WILDCAT CANYON, ~~CONTRA COSTA CO.~~, CONTRA COSTA CO., CALIF.

9:20 AM - HEARD 1 IN TOP OF 20-25 FT. OAK BESIDE ROAD INTO TENNIS COURT AREA. SAW IT ALSO-OLIVE-DRAB BACK + WINGS, YELLOWISH GREEN BENEATH, SONG SORT OF CHAPPERING SERIES GOING DOWN NEAR END + WITH A TERMINAL NOTE UP.



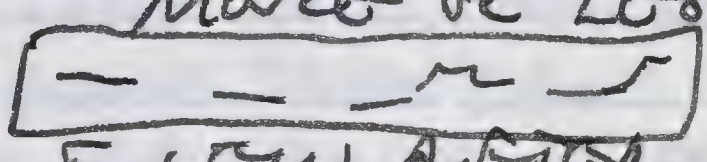
ABOUT 2 TO 3 SEC'S LONG GIVEN ABOUT EVERY 80 SEC'S.

C. ZIEGLER
1956

TOWNSEND WARBLER (DENDROICA TOWNSENDI)

MAY 5 WILDCAT CANYON, CONTRA COSTA CO., CALIF.

11:40 SAW ♂ IN 20 FT HIGH LIVE OAK FEEDING & FLITTING THRU FOLIAGE NEAR TOP OF OAKS. BLACK THROAT, 2 FACE STRIPES & BLACK STRIPE THRU CROWN. SONG WIRY "TSEET TSEET TSEET TSETE-LO TSEET" MORE OR LESS ON 1 PITCH.



& NOT TOO LOUD. & LOW AFTER 2 OR 3 MINUTES OF FLITTING & FEEDING (?) LAST NOTE SEEMS TO RISE A LITTLE IN SOME SONGS.
WHOLE SONG RATHER THIN & NOT TOO LOUD.

J.C. ZIEGLER
1956

TOLMIE WARBLER (OPORORNIS TOLMIEI)

MAY 5 WILDCAT CANYON, CONTRA COSTA CO., CALIF.

8:25 AM SAW 1 (♂?) GREY HEAD WITH VERY SMALL BLACK MARK AT BASE OF GREY HEAD ON THROAT. BLACK NOT TOO WELL-DEFINED. CHASED HOUSE WREN WHICH FLEW INTO BRUSH ON SUNNY HILL WITH THICK GROWTH OF LIVE OAKS. WARBLER MOVED FAIRLY SLOWLY THRU OAKS MAYBE FEEDING. BRUSH WAS THIMBLE BERRY & BRECHNERIS.

12:00 NOON - SAW ♂ IN TOP OF 15 FOOT ELDERBERRY SINGING "SWEET-SWEET SWEET-SUGU-SUGU" [— — — ~ ~]

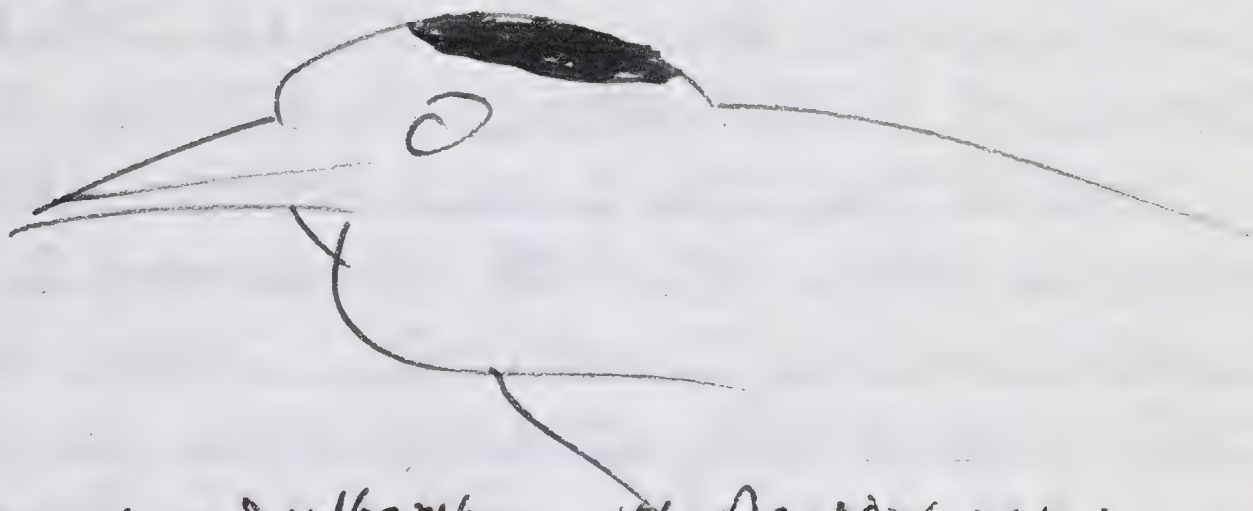
THE FIRST 3 NOTES CLEAR & LAST TWO A LITTLE LOWER & SLURRED, "SWEET-SWEET-SWEET-SUGAR-SUGAR" ACCORDING TO RALPH KRAITT!.

J.C. ZIEGLER
1956

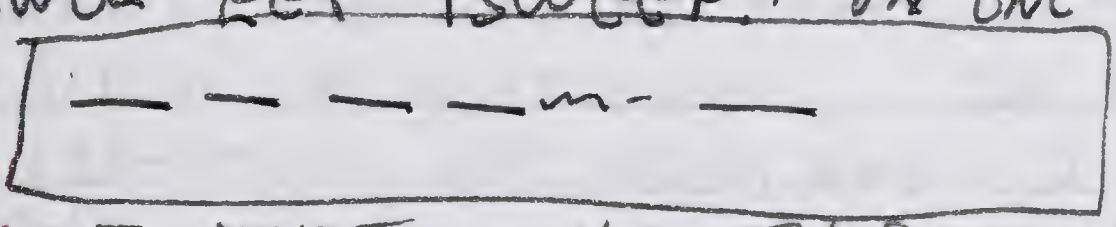
PIN EDGED WARBLER
(WILSONIA PUSILLA)

APR 28 WILD CAT CANYON, CONTRA COSTA CO., CALIF.

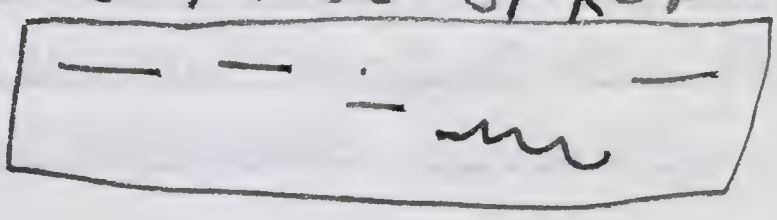
& 10:05 AM. SAW ♂, IN LOW TREES + BUSHES 10 FT OVER PATH ALONG WOODED HILLSIDE — NOTE "TSCHIP!" OVER EVERY MINUTE OR SO. NO SONG HEARD NO ♀ SEEN BUT ANOTHER TSCHIP HEARD NEARBY. YELLOWISH BELOW, OLIVE ABOVE BLACK CAP WELL UP ON HEAD NOT TOO NOTICEABLE FROM SIDE VIEW



MAY 5 9:00 AM 1 SINGING IN POISON IVY CLUMP THEN IN LIVE OAK 15 FT UP. SONG - "TSWEET - TSWEET - TWSCEET - TWSCEET TSWEE EET TSWEEP." ON ONE PITCH MORE OR LESS.



NOT JUST LIKE THOSE ON U.C. CAMPUS WHICH SING

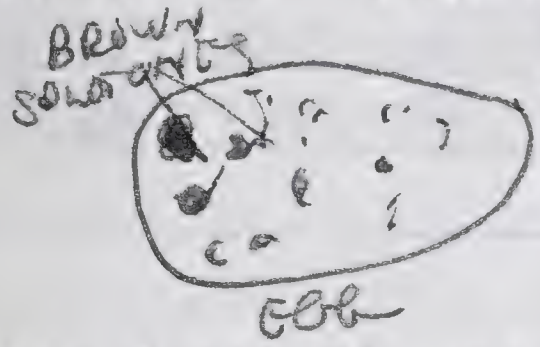


J.E. ZIEGLER
1956

WESTERN MEADOWLARK (STURNELLA NEGLECTA)

APR 1 BAY FARM ISLAND, ALAMEDA CO., CALIF.

10:20 AM - SAW NEST WITH 5 LONGISH WHITE EGGS WITH BROWN SPLOTCHES ESP. NEAR LARGER END. IDENTIFIED BY DR. MILLER AS MEADOWLARKS. NEST IN COFFEE-CUP SIZED DEPRESSION 1 IN & OR 9 INCH TALL GRASS AT BASE OF SOME SORT OF 8" TALL THISTLE OR DANDELION PLANT. LINED, MOSTLY AT BOTTOM, WITH FINE GRASS. DUE TO DEPTH OF DEPRESSION & HEIGHT OF GRASS EGGS COULD NOT BE SEEN UNTIL STANDING PERSON WAS WITHIN 3 FT OF NEST. DISTANCE WOULD HAVE TO BE A FEW INCHES, PROBABLY, FOR A DOG OR FOX ETC. NEST WAS IN GRASS PLOT ABOUT 150 FT LONG & 70-75 FT WIDE BETWEEN TWO WELL-TRAVELED ROADS. ABOUT 20' FROM ROAD WITH A DITCH IN BETWEEN. ON NW CORNER OF ISLAND. AT 10:35 AM - 2 MEADOWLARKS SEEN ON WIRE 200 FT FROM NEST - 1 "CHUCKING" & GIVING RATTLE OTHER GIVING REGULAR SONG (-R)



ZIEGLER
1956

BREWER BLACKBIRD (EUPHAGUS CYANOCEPHALUS)

FEB 18 LAKE MERRITT, OAKLAND, ALAMEDA CO., CALIF.

8:30 AM → SINGLES & FLOCKS (20±)
SEEN ON WALKS IN TREES AROUND LAKE
CONSTANT WHEEZING & CLICKING CALLS
ON EVEN WHEN BIRDS WERE SITTING
INACTIVELY IN TREES. BIRDS WALKED.
♂ WHITISH EYE. ♀ DARK EYE.

C. ZIEGLER
1956

WESTERN TANAGER (ARANGA LUDOVICIANA)

MAY 6 WILDCAT CANYON, CONTRA COSTA CO., CALIF.
9:40 AM SAW 1 OF HEAD NOT SOLID RED JUST DIFFUSE REDDISH FLYING IN TOP OF 50 FT TALL EUCALYPTUS FLITTED AROUND OCCASIONALLY FOR 3 MINUTES THEN FLEW OFF AGAIN & COULD NOT BE FOLLOWED. NO SONG OR NOTES.

ZIEGLER
1956

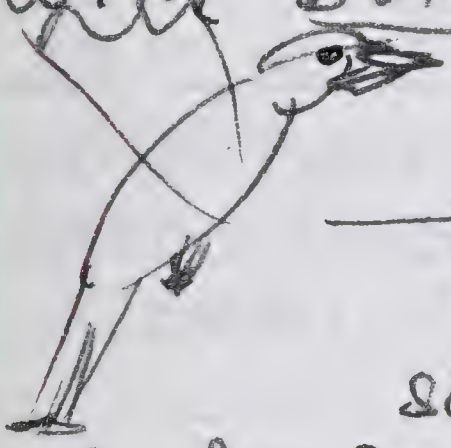
(PHEUCTICUS MELANOCEPHALUS)

BLACK HEADED GROSBEAK

APR 28 WILDCAT CANYON, ~~ALAMEDA CO.~~, CONTRA COSTA CO., CALIF

8:40 AM SAW 1 IN TOP OF 30-40 FT. LIVE OAK. SINGING ROBIN-LIKE STRING OF NOTES BUT, TO ME, NOT SO REGULAR AS THOSE OF ROBIN. ~~SAW~~ HEARD SAME(?) BIRD A FEW MINUTES LATER IN EUCALYPTUS 150 FT AWAY. 2 OR 3 HEARD THRU OUT WOODS NEAR TENNIS COURT PICNIC GROUNDS, NO ♀ SEEN FOR SURE YET.

10:30 AM - SAW ♂ FLY SINGING FROM ONE HIGH EUCALYPTUS TO ANOTHER WITH BUTTERFLY-LIKE FLIGHT - LIKE CHAT IN SAME FLIGHT. WHITE SPOTS QUITE NOTICEABLE IN WINGS. DID NOT SEEM TO BE FOLLOWING OR BE FOLLOWED BY, ANOTHER BIRD.



MAY 5 8:30 AM SAW 1 ♂ & 1 ♀ FEEDING IN NEW GROWTH OF LIVE OAKS ON SUNNY HILLSIDE. FIRST FEEDING 20 FT APART THEN JOINED EACH OTHER & FED WITHIN A FOOT OF EACH OTHER. COULD NOT SEE WHAT (IF ANYTHING) WAS BEING EATEN. THE ♂ HEARD SINGING IN THE 20 FT. HIGH LIVE OAK TOPS JUST A FEW MINUTES PREVIOUS TO THIS.

MAY 19 9:00 AM. 1 ♂ SINGING ON NEST 25 TO 30 FT. UP IN LIVE OAK ON ONE OF SMALL, TOP SIDE BRANCHES. AT 9:10 ♀ SAT IN BAY TREE 30 FT

C. ZIEGLER
1956

BLACKHEADED GROSBEAK (PHEUCTICUS MELANOCEPHALUS)

MAY 19 (CONT.) WILDCAT CANYON, CONTRA COSTA CO., CALIF.

FOR A FEW SEC'S THEN FLEW TO NEST & A HIT ABOUT 8 INCHES AWAY. ♂ THEN LEFT NEST & FLEW AWAY. ♀ STARTED INCUBATING(?) NEST SEEMED ABOUT 4-5 INCHES ACROSS & PERHAPS 2 INCHES DEEP MADE OF (ON OUTSIDE) ~~FW~~ BE ABOUT MATCH-STICK - THICKNESS. PLACED ON TOP OF "Y'S" OF SMALL BRANCHES.

9:25AM SAW SECOND NEST IN OUTER BRANCHES OF ELDERBERRY ABOUT 18' ABOVE GROUND ON CREEK BED. ONLY 100 FT OR SO FROM 1ST NEST BUT W/O CREEK BED. NOT TOO MUCH COULD BE TOLD ABOUT NEST BUT LIKE THE FIRST IT WAS ON THE OUTER PART OF CROWN OF TREE — NOT WAY BACK IN CENTER OF TREE. ABOUT 6" IN FROM OUTER SURFACE OF TREE.

ICBLER
1956

PINE SISKIN (SPINUS PINUS)

FEB 13 U.C. POULTRY HUSBANDRY BLDG, BERKELEY, ALAMEDA CO., CALIF.

1:20 PM - SAW FLOCK (75±) HANGING ON, & EATING LAST YEAR'S SEED CATKINS OF SOME TYPE OF TREE, WHICH HAD BEEN UPROOTED & LAY ON STREAM BANK. OTHERS OF FLOCK CARRYING ON SAME WAY, HANGING HALF UPSIDE DOWN, IN STILL-STANDING TREES OF SAME TYPE. BIRDS ALL HEAVILY STREAKED ABOVE & BELOW EXCEPT FOR LOWER BELLY & U'TAIL COVERTS. WING BARS ON 4 OR 5 OF THEM DEFINITELY YELLOW-SH BUT BARS ON OTHERS MORE WHITISH. FLOCK FLEW OFF IN 3 SECTIONS TO CIRCLE & FLY INTO OTHER TREES OF SAME TYPE FURTHER UP HILL. CALL NOTES SEEP-SEEP-ETC GIVEN BY FLOCK WHILE IN FLIGHT. FAIRLY QUIET BUT ACTIVE WHEN IN TREES. SEVERAL TIMES FLOCK (OR PART OF IT) FLEW OFF TO CIRCLE A SHORT DISTANCE & REENTER SAME TREE.

1:50 PM - FLOCK (SAME AS AT 1:20 PM?) SEEN IN PROP OF SEVERAL BARE TAN TREES; SOME OF BIRDS SITTING WITHIN 8' OF SPARROW HAWK. NEITHER SEEMED CONCERNED. FLOCK CIRCLED AND CAME BACK TO SAME TREE BUT HAWK DIDN'T MOVE. THEN HAWK FLEW OFF WITH NO CALL & SISKINS WERE NOT DISTURBED. AT 2:00 PM. THEY FLEW ALSO GIVING SAME "SEEPS" IN FLIGHT ESPECIALLY WHEN JUST TAKING OFF.

C. ZIEGLER
1956

AMERICAN GOLDFINCH (SPINUS TRISTIS)

MAY 5 WILDCAT CANYON, CONTRA COSTA CO., CALIF.

10:40 AM SAW MAYBE 10 GREM OF & ♀ FEEDING ON OPEN BASEBALL FIELD GRASS ONLY AN INCH OR SO TALL. SOME MALES HAD 2 OR 3 ♀♀ NEAR THEM BUT MANY OTHER OF BOTH SEXES SEPARATED BY 20 TO 30 FT. WHILE FEEDING. NOT TOO ACTIVE — JUST STANDING IN ONE SPOT & SLOWLY PECKING AT GRASS OR GROUND.

C. ZIEGLER
1956

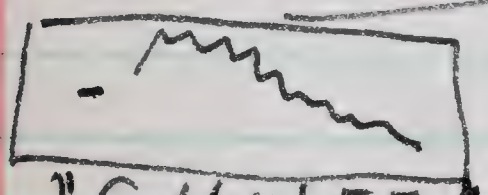
SPOTTED TOWHEE
(PIPILO MACULATUS)

FEB 11 WILDCAT CANYON, CONTRA COSTA CO., CALIF.
10:45 AM. - 1 ♂ SEEN IN BRUSH RAVINE OR GULLEY PERCHED ON DEADWOOD STOMP THEN FLYING TO GROUND. SOON MOVED INTO DENSE UNDERBRUSH. LATER FLEW BACK INTO SMALL HARDWOOD BUSH & GAVE CONSTANT "CHWÁNK" DRAWN OUT & WINING SOUNDING.

FEB 15 STRAWBERRY CANYON, ALAMEDA CO., CALIF
9:30 AM. RECOGNITION NOTE HERE & INSERT LINE CONTINUED BACK TO REC. TO AB MINOR..

APR 28 WILDCAT CANYON, CONTRA COSTA CO., CALIF
11:05 AM. - SAW ♂ FEEDING & SCRATCHING ON 1-2 INCH HIGH GRASS LAWN IN OPEN PICNIC GROUND. 30 FT. TO NEAREST COVER WHICH WAS BACCHARIS. TWO STEELHEAD TROUT FEEDING ABOUT 10 FT AWAY, SCATTERED EUCALYPTUS TREES PROVIDING SOME HIGH (10 TO 20 FT. HIGH) COVER.

MAY 5 11:10 AM 1 ♂ SITTING OUT ON TOP OF 6 FT. BACCHARIS GIVING "CHWK-TWEE"



FIRST NOTE HARDLY HEARD BUT "TWEEE" (OR "CHWEENH") VERY LOUD. ANOTHER HEARD CALLING HIGHER UP (100 FT AWAY) ON HILL.

C. ZIEBURG
1956

BROWN TOWHEE (PIPILO FUSCUS)

FEB 11. WILDCAT CANYON, CONTRA COSTA CO., CALIF.
8:20 AM - SAW TWO TOWHEES IN SHORT GRASS & WEED STEMS — APPARENTLY FEEDING. SCRATCHING AT GROUND & PICKING UP SOMETHING. NO CALL GIVEN WHILE ON GROUND. BUT WHEN BIRDS FLEW TO NEARBY BUSH I GAVE SHARP "CHIP". SOUTH-FACING HILLSIDE WITH A FEW PINES ON IT, REST OF SLOPE GRASS COVERED.

FEB 25 STRAWBERRY CANYON, ALAMEDA CO., CALIF.
9:30 A.M. — PAIR SEEN IN MORE OPEN BRUSHY RAVINE. REC. WITH NOTE DEC. TO DR. MILLER. PAIR REC. NOTE SHARP "CHIP" HEARD OFT.

MAR 3 WILDCAT CANYON, CONTRA COSTA CO., CALIF
8:30 AM
SAW ABOUT 6 IN BURRO CORRAL IN COMPANY OF ABOUT 10 OREGON JUNCOS. THE TOWHEES SEEMED TO BE CHASING EACH OTHER OCCASIONALLY WITH LOUD CHINK NOTES. DID NOT SEEM TO BOTHER THE JUNCOS TWO.

J.C. ZIEGLER
1956

OREGON JUNCO (JUNCO OREGANUS)

FEB 11 WILDCAT CANYON, CONTRA COSTA CO., CALIFORNIA

8:45 AM - SAW JUNCO IN CUT DOWN BRANCHES OF EUCALYPTUS TREES ON GROUND IN EUCALYPTUS GROVE. CHIPPING OR TITTERING AS IT FLEW INTO SMALL (8') EUCALYPTUS. WHITE OUTER TAIL FEATHERS QUITE NOTICEABLE. ANOTHER JUNCO PRESENT ON GROUND FEEDING. THE TWO WHEN BOTH FEEDING ON GROUND KEPT PERHAPS 8'-10' FT. APART. MOST OF TIME SPENT ON GROUND OR ON BRUSH LYING ON GROUND. HILLSIDE SLOPING DOWN FROM ROAD - VERY LITTLE UNDERBRUSH OTHER THAN THAT CUT DOWN & LYING AROUND. NO OTHER KINDS OF BIRDS NEARBY, AT LEAST WITHIN 200 FEET OR SO. AFTER 10 MINUTES OF FEEDING BIRDS FLEW, TITTERING, TO ROADSIDE BANK & FROM THERE ONE FLEW INTO ROADSIDE EUCALYPTUS (PLANTED?) FLITTING OF TAIL OF BIRDS NOTICED AFTER THEY SHIT ON DIFFERENT PERCHES OFTEN ACCOMPANIED BY TITTERING.

9:15 AM SAW JUNCO TITTERING & TAIL FLITTING IN EUCALYPTUS ABOVE US 40' ABOUT ROAD. 2 OR 3 MORE FLEW FROM GROUND INTO NEARBY TREES & CARRIED ON SOME ACTIONS. SOME SIGNS OF TITTERING RUNNING INTO HARSH TRILL.

ZIEGLER
1956

GOLDEN-CROWNED SPARROW (ZONOTRICHIA CORONATA)

FEB 13 U.C. BOTANICAL GARDENS, BERKELEY, ALAMEDA CO., CALIF.

9:30 AM - SAW 1 BIRD, YELLOW OF CROWN SLIGHTLY NOTICEABLE, SITTING ON LIMB OF ROSE BUSH EATING YOUNG LEAVES OF ROSE BUSH. LOOKED WITH BINOC'S TO CHECK THAT IT WAS NOT JUST EATING INSECTS BUT SAW THAT JUST SMALL NEW LEAVES (LESS THAN 5 OR 6 IN DIAMETER MM) WERE ~~TAKEN~~ PICKED WHOLE & WORKED INTO THE BILL & SWALLOWED.

MAR 3 WILDCAT CANYON, CONTRA COSTA CO., CALIF.

10:15 AM. - SAW ABOUT 6 BIRDS - 2 WERE WATCHED EATING PIECES OF "PUSSY-WILLOW" CATKINS AND POSSIBLY SMALL LEAVES. FEEDING QUIETLY WITHIN A FOOT OR SO OF EACH OTHER. BROWN TOWHEES SEEN CHASE TO THE FLOCK OF SPARROWS. YELLOW ON CROWN NOTICEABLE ON AT LEAST 2 OF THE BIRDS. RIPARIAN ASSOC. AT WOODLAND CAMP GROUND.

ZIEGLER
1956

WHITE-THROATED SPARROW (ZONOTRICHIA ALBICOLLIS)

FEB 13 U.C. BOTANICAL GARDENS, BERKELEY, ALAMEDA CO., CALIF.
10:50 — SAW 1 SCRATCHING IN CHICKEN MANURE PATCH ALONG WITH GOLDEN CROWNED + SONG SPARROW. THROAT WHITE (NOT GREY!) WHITE-CR'D THAT FLEW IN JUST AFTERWARD HAD NO SUCH WHITE THROAT PATCH.

ZIEGLER
1956

FOX SPARROW (PASSERELLA ILIACA)

FEB 13 U.C. BOTANICAL GARDENS, BERKELEY, ALAMEDA CO., CALIF.

9:15 AM - SAW 1 IN HEDGE NEAR ENTRANCE TO GARDENS. UPPER PARTS & TAIL RATHER DARK BROWN. SPOTTING ON BREAST HEAVY. 11:00 AM - SEVERAL MORE (3-4) SEEN ON RELATIVELY OPEN SLOPES FEEDING & SCRATCHING NEAR BASE OF SHRUBS & HEDGES. NO CALL OR SONG GIVEN. BIRD APPEAR MUCH DARKER AND MORE UNIFORM ABOVE THAN OTHER SPARROWS HERE.

FEB 25 STRAWBERRY CANYON, ALAMEDA CO., CALIF.

9:15 - 9:25 AM. - SAW 1 SCRATCHING IN LEAF LITTER NEAR SAME SPOT THE WHOLE 10 MIN'S. SEEMED TO THROW LEAVES BACKWARDS BUT COULD NOT TELL IF BOTH FEET MOVED TOGETHER OR ALTERNATELY. DR. MINNER SAID FEET PROBABLY MOVED TOGETHER. HE ALSO MENTIONED OVER PERIODS OF TIME A LOT OF FOREST LITTER MUST BE TURNED OVER BY THESE BIRDS, PROBABLY HELPING IN BREAKDOWN OF NEW LITTER. NO CALLING OR NOTES NOTICED.

Mammals

C. ZIEGLER
1956

DIDELPHIS VIRGINIANA

SEPT 13 +14 NEW COLUMBIA RANCH T13 S, R15E, MADERA CO., CALIF.

SAW 1 CROSSING HIGHWAY BETWEEN FIREBAUGH & ITALIAN SWISS COLONY ABOUT 6.5 MI. E OF FIREBAUGH, AT 1:15 A.M. ON SEPT 14. MOON HAD NOT QUITE REACHED THE HORIZON, SO IT WAS STILL FAIRLY MOONLIT. CAR LIGHTS DIDN'T SEEM TO BOTHER OR HURRY IT.

SEPT 18 BERKELEY (MARIN & COLUSA AVES), ALAMEDA CO., CALIF.

SAW 1 FRESHLY DEAD IN STREET AT 7:40 A.M. BUT DIDN'T HAVE TIME TO STOP & GET THRU TRAFFIC TO PICK IT UP.

A. C. ZIEGLER
1956

SOREX TROWBRIDGII

OCT 20. 6.2 MI. S, 3.1 MI E TOMALES BLUFF, 50± FT. MARIN CO., CALIF.

JOHN LAWRENCE CAUGHT 3 IN 30 TRAPS CHECKED & I GOT 1 IN 5 TRAPS CHECKED AT 5:15 PM. TRAPS OUT ONLY AN HOUR & 15 MIN'S. CAUGHT IN CLOGGED CENTERS OF GRASS & CARDY CLUMPS WHICH HAD RUNS DUG OUT & TRAPS SET IN THEM. IDENT. BY DR. BENSON. SAW 6 DEER ALSO ALONG ROAD.

OCT 21 CAUGHT 9 MORE IN TRAPS (AS ABOVE) & JOHN GOT 1 MORE. ONLY 1 PEROMYSCUS MANICULATUS CAUGHT BESIDES THESE.

NOV 18 8 MI. S, 3 MI. E TOMALES BLUFF, 25± FT., MARIN CO., CALIF.

GOT 2 ALONG STREAM AT BASES OF JUNCUS & GRASS CLUMPS. 1 IN DAMP WILLOW THICKET UNDER 4' HIGH GRASS. AND 2 IN WET UNDER GROUND TUNNELS IN JUNCUS & GRASS CLUMPS.

A. C. ZIEGLER
1956

SOREX VAGRANS

SEPT 29 SABEHEW CREEK, 6400 FT., 3 MI. NW HEBART MILLS, NEVADA CO., CALIF.

CAUGHT 2 ON PECANS IN 1' HIGH GRASS NEAR STREAM IN WET MEADOW. NO RUNS — JUST NEARS SET IN GRASS. IDENTIFICATION BY DR BENSON. (SOREX TROWBRIDGEI CAUGHT BY OTHER ZOOLOGY CLASS MEMBERS (LOCATION?)

NOV. 17 8 MI. S, 3 MI. E TOMALES BLUFF, 25± FT., MARIN CO., CALIF.

1 TRAPPED IN TUNNEL IN DAMP GROUND UNDER GRASS CLUMP BESIDE STREAM. 2. S. TROWBRIDGEI, + 5 RETHRO. MEADOWS ALSO TRAPPED HERE DURING NIGHT. THIS SHREW, + 1 OF THE RETHROS WERE CAUGHT BETWEEN 5 + 6 PM TWO AS I WENT BACK OVER THE LINE AFTER SETTING THEM.

DEC 22 + 23 2 MI. W TOMALES, 400± FT., T. 5N, R. 10W, MARIN CO., CALIF.

1 CAUGHT BTW. 5 + 8 PM DEC. 22 ON PECANS AT BASE OF CAREX CLUMP IN COW PASTURE. MICROTUS + RETHRO CAUGHT HERE ALSO.

ZIEGLER
1956

LEPUS CALIFORNICUS

FEB 25 STRAWBERRY CANYON, ALAMEDA CO., CALIF.
9:40 AM - 1 SEEN BOUNDING ALONG COW TRAIL ON VERY SHORT GRASSED HILLSIDE WITH ~~SOME~~ QUITE A FEW ROCKS (UP TO 1' DIA) ON IT. ~~THE~~ ANIMAL WAS FLUSHED BY APPROACH OF GROUP OF 10 OF US AND WAS SOON LOST SIGHT OF AS IT TOPPED A SMALL HILL. FIELD WAS SURROUNDED BY BARB-WIRE FENCE & GRAZED BY 1 COW. MODERATE RAIN WAS FALLING.

SEPT 13 +14 NEW COLUMBIA RANCH, T13S R15E, MARIPOSA CO. CALIF.
SAW 20+ IN DAY + NIGHT TIME IN FIELDS + ALONG ROADS. SOMETIMES 3 OR 4 SCATTERING AS CAR LIGHTS APPROACHED THEM BUT NO MATING ACTIVITY NOTICED.

A. C. ZIEGLER
1956

SYLVILAGUS BACHMANI

OCT 21 6.2 MI. S, 3.1 MI E TOMALES BLUFF, 50± FT, MARIN CO., CALIF.
8:00 AM SAW 1 BESIDE ROAD SCARED OUT OF MARSHY BRUSH BY JOHN LAWRENCE. MANY RUNS ~~THRU~~ IN GRASS CLUMPS WITH RABBIT (?) DROPPING AROUND THIS LOCALITY.

L. ZIEGLER
1956

CITELLUS LATERALIS

SEPT 29 SAGEHEN CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO. CALIF.

CAUGHT 1 ON ROCKY GROUNDS CLEARING IN CONIFERS IN RAT TRAP IN DRIED FRUIT. CAUGHT BETWEEN 7:30 AM. & 8:45 AM THIS MORNING AS I RAN TRAP LINE TWICE THIS A.M. EUTAMIAS AMOENUS & EUTAMIAS SPECIOSUS CAUGHT NEARBY. ONE OTHER OF THESE ANIMALS TRAPPED BY OTHER 200135 CLASS MEMBERS 2 OR 3 OTHERS SEEN DURING DAY ON ROCKY ROAD EDGE.

C. ZIEGLER
1956

EUTAMIAS AMOENUS

SEPT 29 SABENON CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO.

CAUGHT 3 ON ROCKY, CONIFER — CANE & ARTEMESIA SHAPE. 1 IN MUS SPECIM & OTHER 2 IN RAT TRAPS.
BAIT DRIED FRUIT ON RAT TRAPS & PECANS ON MUS SPEC. RAN TRAPS DURING DAY 2 TIMES & GOT 2 MORE EACH TIME. FIRST 3 CAUGHT BETWEEN 7:30 PM & 7:30 AM. TRAPS SET ON GROUND NEAR ROCKS & BUSHES. SOME HOLES 2 IN. IN DIA. SEEM UNDER ROCKS. MANY CAUGHT BY OTHER MEMBERS OF ZOO 135 CLASS.

I CAUGHT BESIDE CABIN IN RAT TRAP ON DRIED FRUIT ABOUT 4:00 P.M. TODAY. ~~[illegible]~~ OTHERS SEEN. E. AMOENUS, E. SPECIOSA & CITELLUS LATERALIS SEEM TO USE SOMEWHAT THE SAME HABITAT HERE, BUT E. AMOENUS MAY BE FOUND IN DRIER PARTS OR NOT-SO-WOODED PLACES.

C. ZIEBER
1956

EUTAMIAS SPECIOSUS.

SEPT 29 SPOONER CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO., CALIF.
1 ON ROCKY SLOPE WITH ARTEMISIA & CONIFERS. OTHER SPECIES CAUGHT HERE EUT. AMOENUS, CITELLUS LATERALIS & PEROMYSCUS MANICULATUS. THIS ANIMAL CAUGHT BETWEEN 7:30 PM & 7:30 AM.

ZIEGLER
1956

THOMOMYS BOTTAE

MAR 24 STRAWBERRY CANYON, U.C. CAMPUS, OAKLAND, ALAMEDA CO. CALIF.

CAUGHT 1 OF WITH MARBEE GOPHER TRAP, IN BURROW IN FAIRLY DAMP GROUND ABOUT 6" BENEATH SURFACE. BURROW ON SHADED HILLSIDE 20' FROM SMALL STREAM. BURROW SYSTEM RAN, PROBABLY UP HILL FOR 50 FEET OR SO - OR SEEMED TO FROM THE SAND PILES OF EARTH ALONG IT.

MAR 25 POINT ISABEL, CONTRA COSTA CO., CALIF.

SAW FRESH MOUND IN SAND ONLY 2 FT OR SO, (VERTICALLY) ABOVE HIGH TIDE MARK SAND WAS DAMP IN MOUND BUT DRY ON SURFACE. FOUND ONE FEEDING HOLES - SOME PLUGGED, SOME OPEN IN PARKING LOT 8-10 FT ABOVE WATER LEVEL IN HARD CLAY SOIL BUT NO RECENT WORK HERE.

C. ZIEGLER
1956

PEROGNATHUS CALIFORNICUS

SEPT 24 BERKELEY (STRAWBERRY CANYON), ALAMEDA CO., CALIF.
CAUGHT 1 ON DRY ROCKY S. FACING SLOPE WITH BRECHRIS + ARTEMESIA STILL ALIVE - CAUGHT BY HIND LEG SO KEPT TO SEE IF LEG IS BROKEN - IF NOT - WILL KEEP AS PET. BAIT - OLD PECANS. TRAPS SET NEAR BUSHES BUT IN OPEN SPACES. CAUGHT 5 PEROMYSCUS TRUEI HERE ALSO.
PEROG SLINNOS SEPT 26 -

SEPT 26 STRAWBERRY CANYON, BERKELEY, ALAMEDA CO., CALIF.
CAUGHT 1 ON DRY GRASSY SLOPE 100 YDS AROUND FENCE TO E OF BOT. GARDENS PARKING LOT. UNDER A BRECHRIS BUSH BUT ARTEMESIA IN SCATTERED CLUMPS NEARBY.

NOV. 26. 1 MI. S, 8 MI. E SHANDON (McMILLAN RANCH), SAN LUIS OBISPO CO, CALIF.
PUT UP ALL 5 WHICH J. COOK CAUGHT ON NOV. 24, TO BE DETN'D BY M.V.Z.

ZIEGLER
1956

DIPODOMYS NITRATOIDES

SEPT. 13 + 14 NEW COLUMBIA RANCH, T13S, R15E, MADERA CO., CALIF.

~~Ca~~ JOHN LAWRENCE CAUGHT 1 IMM. IN MUS. SPECIAL TRAP ON WALNUTS ALONG OPEN DRY LEVEE-TOP ROAD BESIDE SLOUGH (#344 A.C. ZIEGLER TO SEE EXACT LOCATION). TRAPS WERE SET BETWEEN 1 AND 2 AM SEPT 14 & WERE RUN ABOUT 8 AM. MOON SET AT 1:30 AM. TRAP THAT CAUGHT THIS ~~PAS~~ WAS SET IN HEEL-DUG FURROW ~~AN~~ INCH DEEP. 50 ~~TR~~ TRAPS WITHIN A QUARTER MILE HERE GAVE ONLY 1 OTHER ~~AN~~ MAN — A PEROMYSCUS MANICULATUS. MANY LEPUS CALIF. SEEN ALONG THIS STRETCH.

DROVE ROADS FROM DARK (8:00 PM TIL 4:30 AM) BUT SAW NO DIPOS TIL MOON HAD ALMOST SET AT ABOUT 1:30 AM. THEN WE SAW 15 OR 20 ALONG FIREBREAK HIWAY (BORDERED WITH OPEN RANGE LAND SPOTTED WITH A FEW SHRUBS) AND ALONG A MILE STRETCH OF ROADS ALONG THE SLOUGH 20 MILES NORTH OF WHERE DIPO ABOVE WAS CAUGHT. THEY WOULD RUN ALONG IN CAR LIGHTS & INTO BUSHES BUT MUST HAVE GONE INTO HOLES OR KEPT ON RUNNING THEM THO, 'CAUSE WHEN WE WENT AFTER THEM WITH NET & FLASHLIGHT THEY JUST WEREN'T THERE. IN CORRAL HOLLOW, SAN JOAQUIN CO., WE HAD GOOD LUCK NETTING DIPO. HEERMANNI LIKE THIS SEVERAL MONTHS BEFORE. ALL OF THESE DIPOS

C. ZIEGLER
1956

DIPODOMYS NINRATOIDES

SEPT 13 NEW COLUMBIA RANCH T13S, R15E, MADERA CO., CALIF.
+14

WE SAW THIS, PRESENT TRAP MAY NOT HAVE BEEN NINRATOIDES SINCE SEVERAL LOOKED QUITE LARGE — BUT THIS WE ~~DON'T~~ CAN'T KNOW FOR SURE SINCE WE DIDN'T CATCH ANYMORE.
IT SEEMS, THEN, THE PLACE TO TRAP MORE WOULD BE NOT MOSTLY IN PASTURES AS WE DID BUT ALONG THE OTHER MORE OPEN "RANGE" LAND ALONG THE FIREBAUGH - ITALIAN SWISS COLONY HIWAY.

G. ZIEGLER
A56

RETHRODONTOMYS MEGALOTIS

MAR 24 STRAWBERRY CANYON, U.C. CAMPUS, OAKLAND, ALAMEDA CO., CALIF.

1 ♂ MUS. SPECIMEN ON S-FACING SLOPE OF 6-8 INCH HIGH GRASS IN MICROTUS RUNWAY. WHITISH BENEATH, REDDISH TINGE ON FLANKS, BROWNISH BACK GROOVED INCISORS. REDDISH HAIRS IN UPPER PARTS OF EAR PINNA. CAUGHT WITHIN 3-4' OF LUPINE BUSH.

SEPT 26 STRAWBERRY CANYON, BERKELEY, ALAMEDA CO., CALIF.

CAUGHT 2 ON EDGE OF ARTEMESIA & BRACHARIS BORDER OF A DRY THISTLE FIELD NEAR E EDGE OF BOTANICAL GARDENS. I LOOKED QUITE LIKE MUS WITH ALMOST UNICOLORED TAIL & GREYISH UNDERPARTS. THE TRAP THAT HELD THE OTHER HAD THE STRING CUT NEAR FLOOR (2' OFF GROUND) IN ARTEMESIA BUSH & HOLES GNAWED IN RED CLOTH.

NOV 3+4 2 MI. W BADEN STATION, 500± FT., SAN MATEO CO., CALIF.

CAUGHT 3, 2 AND 10 AT 6:00 AM, 9:00 PM (NOV. 3) AND 6:30 AM (NOV. 4) IN JUNCUS & BRIARS IN CATTLE MEADOW. MOST CAUGHT BY TAILS (SOME STILL ALIVE). SEEM TO BE SITTING ON TRAP WHEN IT SPRINGS & HAVE THE TAIL AS THE ONLY PART ABLE TO BE HIT BY SPRINGING BAR.

NOV. 17 8 MI. S, 3 MI. E TOMALES BLUFF, 25± FT., MARIN CO., CALIF.

TRAPPED A YOUNG ONE BTW. 5 & 6 PM IN TUNNEL UNDER GRASS CLUMP IN WET MEADOW. TOOK 1 SOREX VAGRANS ALSO AT THIS TIME. GOT 4 MORE RETHROD DURING NIGHT ALSO IN SAME SITUATION

A. C. ZIEGLER
1956

REITHRODONTOMYS MEGALOTIS

DEC 23 2 MI. W. TOMALES, 400± FT., T. 5N, R10W, MARIN CO, CALIF.
1 CAUGHT ON PELANS AT BASE OF CAREX
CLUMP IN WET SWALE IN COW PASTURE.
MICROTUS + SOREX VARIANS HERE ALSO.

G. ZIEGLER
1956

PEROMYSCUS CALIFORNICUS

MAR 24 STRAWBERRY CANYON, U.C. CAMPUS, OAKLAND ALAMEDA CO., CALIF.

1 JUV MUS. SPECIMEN ON BRUSHY HILLSIDE. GROUND SHADED BY LARGE BUCKEYE. LEAF LITTER & STICKS ON GROUND. RUSTY WASH ON CHEST

SEPT 26 STRAWBERRY CANYON, BERKELEY, ALAMEDA CO, CALIF.

CAUGHT ADULT & IMMATURE ALONG E+N EDGE OF BOTANICAL GARDEN FENCE UNDER BRECHARIS, BLACKBERRY & POISON OAK CLUMPS. CAUGHT 5 PEROMYSCUS TRUEI HERE ALSO.

NOV 3+4 1.5 MI. S, 1 MI. W MILLBRAE, 400± FT., SAN MATEO CO. CALIF.

TOOK 2 ~~[illegible]~~ NOV 3 AT 9:00 PM & 3 AT 7:30 AM NOV. 4 ON DAMP, SHADY HILLSIDE. 2 OF THESE TRAPPED JUST IN FRONT OF HOLES OR RUNS, I DUG INTO, IN GROUND. HEADS OF MICE IN TRAP; BODY TOWARDS HOLE — SO THIS LOOKS LIKE THE MICE WERE USING THESE RUNS OR HOLES. P. MANICULATUS & P. TRUEI ALSO TAKEN SAME TIME, SAME LOCALITY.

A.C. ZIEBLER
1956

PEROMYSCUS MANICULATUS

SEPT 13 +14 NEW COLUMBIA RANCH, T-13S, RISE, MADERA CO., CALIF.

CAUGHT 2 IN DRY PASTURE NEAR 6-8 INCH-HIGH THORNY BUSHES BUT MOST OF LAND OPEN WITH 2 INCH HIGH GRASS - HARDLY A PLACE FOR PEROMYSCUS TO HIDE IT SEEMS. 20+ LEPUS CALIFORNICUS AND 2 OR 3 CITELLUS (BEECHEYI) SEEN IN FIELD. MOSQUITOES THICK.

ALSO CAUGHT 1 ON DRY BANK BESIDE DRY SLOUGH - 30 FT. TO NEAREST TREES. GRASS + SMALL PLANTS ONLY 2 OR 3 INCHES HIGH SCATTERED OVER OPEN GROUND. AGAIN HERE MOUSE HAD LITTLE PLACE TO HIDE BUT LIGHT RUFOUS COLORATION RATHER MATCHED THE GROUND COLOR.

SEPT 23 BERKELEY (STRAWBERRY CANYON) ALAMEDA CO., CALIF.

CAUGHT 1 ON HORIZONTAL TRUNK OF CALIF. BAY 4 FT. ABOVE STREAM. 15 TRAPS SET NEARBY ON GROUND HAD A YOUNG UNID. PEROMYSCUS AND 2 SPARROWS. THIS WAS THE BOTTOM OF A GULLY — TRAPS SET FURTHER UP THE SLOPE ON DRIER GROUND TOOK P. TRUEI. OLD PECAN BAIT.

SEPT 29 SIGGERS CREEK, 6400 FT. 3 MI. NW HOBART MILLS, NEVADA CO., CALIF.

2 IN LIVE TRAPS ON ROCKY, CONIFER SLOPE BETWEEN 7:00 PM & 9:00 AM. LAST NIGHT. ALSO SPOTTED YOUNG ONE (OF THIS SPECIES?) WITH LIGHT BUT COULDN'T CATCH IT. 4 ON ROCKY ARTEMESIA SLOPE (NEAR BUSHES OR LOGS).

A. C. ZIEGLER
1956

PEROMYSCUS MANICULATUS

SEPT 29 (CONT.) SABIEN CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO., CALIF.

2 AROUND CABIN DURING NIGHT.
1 AT MIDNIGHT + OTHER DURING NIGHT.
3 IN TRAPS ALONG CREEK MEADOW (1 OF THOSE 60 FT. FROM STREAM IN ARTEMESIA FLAT).
THESE MICE IN MANY OF THE CHASES TRAP. ABOUT 25 CAUGHT AT LEAST.

SEPT. 30 1 IN 25 B+B LIVE TRAP SET ON ROCKY LODGEPOLE PINE SLOPE NEAR BUILDINGS OF SABIEN STATION.
2 INSULAMUS SPEC'S SET ON ROCKY ARTEMESIA + LODGEPOLE PINE SLOPE (AS SEPT. 29). 1 OF THESE HAD A FOOT FRESHLY MISSING AND WAS TRAPPED NEAR SPOT WHERE I FOUND A FOOT IN TRAP SEPT. 29 P.M. SO MAYBE SAME ANIMAL.

NOV 3 + 4. 2 MI. W BRADEN STATION, 500± FT., SAN MATEO CO., CALIF.
1 TALLEN AT 6:00 PM (NOV. 3) & 1 MORE (LOOKING A GOOD DEAL LIKE TRUEI) AT 6:30 AM (NOV. 4.) IN COW PASTURE WITH JUNCUS CLUMPS. THESE TWO TALLEN ON ROADSHOULDER IN FIELD. THIS 10' HIGH BANK HAD BRIARS, JUNCUS, FERNS ETC GROWING ON IT.
MICROTUS CALIFORNICUS + RETHRODONTOMYS MEGALOTIS ALSO TALLEN HERE.

1.5 MI. S, 1 MI. W MILLBRAE, 400± FT., SAN MATEO CO., CALIF.
1 AT 7:30 AM (NOV. 4) ON SHADY MOIST HILLSIDE — P. CALIFORNICUS + P. TRUEI ALSO TAKEN IN THIS SAME TRAP LINE. ALSO 2 MICROTUS CALIFORNICUS

A.C. ZIEGLER
1956

PEROMYSCUS MANICULATUS

Nov. 18 8 mi. S, 3 mi. E Tomales Bluff, 25± ft., Marin Co., Calif.

Took 3 in dry spots on E side of road at this locality. Two these were taken in spots where I had dug into some 1½" dia. tunnel in dry ground (the only tunnels I found in this dry ground). Only 4 traps out of 50 were set in these tunnels. The other mouse was taken beside path in willow thicket in a 4 inch deep 3 in. dia. hole going almost vertically into ground. This may have been the mouth of an old burrow of some sort but seemed to have been somewhat filled in for some time. (Could have been a cow's foot-print also.) Other traps set in brush among willows were not sprung altho it looked like good territory for at least some species of Peromyscus. The boys said one of the groups set in another willow thicket and got a number (13??) of P. maniculatus tho.

Nov. 24 Grizzly Creek State Park Campground, T1N, R2E

Took 3 (all adults?) Humboldt Co., Calif. in 50 mus spec's set in dug out tunnels in leaf litter & soil of redwood forest.

Nov. 25 ~~Campground on~~ Boise Creek Campground, 800± ft., Humboldt Co., Calif.

7 (3 ♂♂, 4 ♀♀) on wet leaf littered hillside just at east border of campground. Nothing else.

A. C. ZIEGLER
1956

PEROMYSCUS TRUEI

SEPT 23 BERKELEY (STRAWBERRY CANYON), ALAMEDA CO., CALIF.

CAUGHT 7 IN MUS. SPEC'S BAITED WITH OLD PECANS & SET ON DRY WOODED HILLSIDE (N-FACING). TRAPS SET NEAR EDGES OF BRUSH OR BRIAR CLUMPS OR BESIDE LOGS. NONE TAKEN IN 15 TRAPS SET IN REDWOOD GROVE. 1 P. MANICULATUS & 1 VERY YOUNG UNID. PEROMYSCUS ALSO TAKEN LAST NIGHT.

SEPT 24 CAUGHT 5 ON S-FACING SLOPE - DRY WITH BRECHARIS & ARTEMESIA & OPEN ROCKY SPOTS OF EARTH. TRAPS WERE SET ALONG EDGES OF BUSHES THO. 1 OF THESE WAS AN IMMATURE. ALSO 1 ARGONATHUS CALIFORNICUS CAUGHT HERE.

SEPT 26 STRAWBERRY CANYON, BERKELEY, ALAMEDA CO, CALIF.

CAUGHT 5 ON EDGE OF BRECHARIS, POISON OAK & BLACKBERRY BUSHES ALONG N & E EDGE OF BOTANICAL GARDENS 1 OF THEM IMMATURE & 1 JUST GOING INTO ADULT PELAGE (GREY ON BACK & HEAD, SIDES BROWNISH) 2 IMMATURES ALSO CAUGHT, 10 FT. NEAR BESIDE BRECHARIS BUSH ON EDGE OF DRY THISTLE FIELD JUST E OF GARDENS. 2 OR 3 OF THESE MICE HAD NOT BEEN KILLED BY TRAP SPRINGING & HAD DRAGGED TRAP 1 OR 2 FEET. ONE CAUGHT BY TAIL & FOUND DEAD IN TRAP HAD CUT SPRING OF TRAP IN TREE 5' OFF GROUND & DRAGGED TRAP 15 FEET.

A.C. BERGER
1956

PEROMYSCUS TRUEI

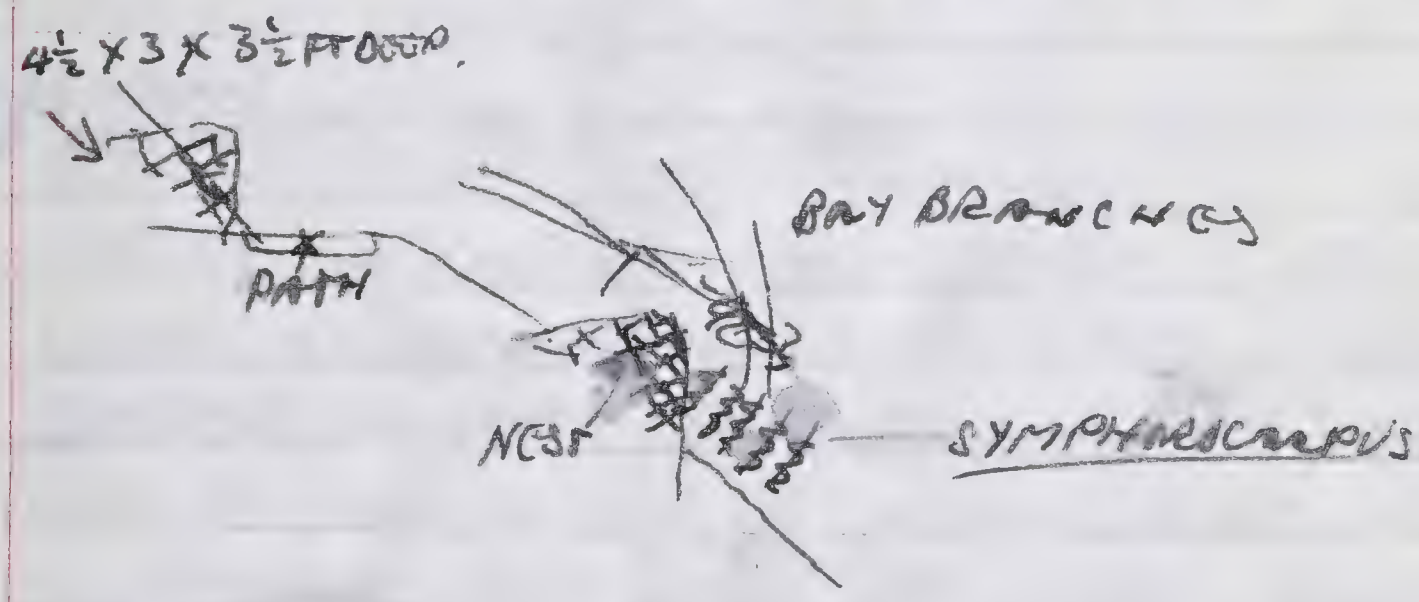
NOV 3+4. 1.5 MI. S, 1 MI. W MILLBRAE, 400± FT., SAN MATEO CO., CALIF.

2 TRAPPED (BUT 1 GOT LOOSE AS I APPROACHED) AT 9:00 PM (NOV. 3) + 1 ?? (~~[illegible]~~ FROM TRAP - ONLY TAIL CAUGHT.) AT 7:30 AM (NOV. 4) ON DAMP SHADY HILLSIDE. CAUGHT ALSO P. CALIFORNICUS + P. MANICULATUS HERE.

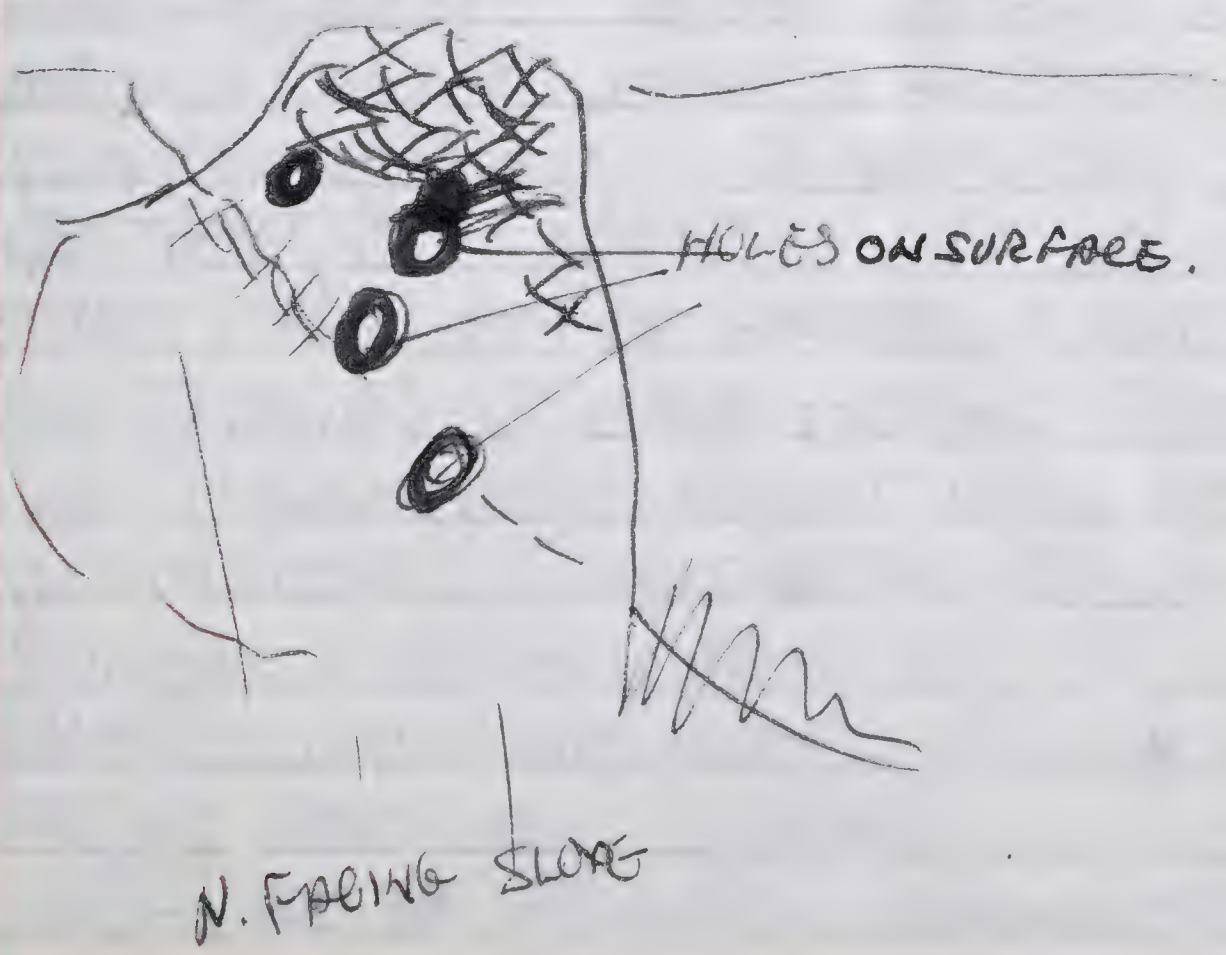
C. ZIEGLER
1956

NEOTOMA FUSCIPES

APRIL 4 STRAWBERRY CANYON, ALAMEDA CO., CALIF.
9:00 AM
FOUND 2 NESTS ON EITHER SIDE OF PATH ON N-FACING SLOPE UNDER LARGE BAY TREE. WORKED ON LOWER ONE FIRST 9 FT (DOWNSLOPE) X 4 FT WIDE X 5 FT TALL, COVERED PARTIALLY DOWNHILL BY SYMPHOROCARPUS SP.? AND BAY SLOPING DOWN TO THE NEST. SLOPE 45° ±



FOUND HOLES NEAR BASE OF NEST ON 2 OF 3 SIDES, 2 AT LEAST WENT INTO NEST. CLEARED BAY & SYMPH. BRANCHES & STARTED AWAY FROM PERIPHERY OF NEST & LOOKED AT DOWNSLOPE, N-FACING FACE. NO DROPPINGS NOTICED AT

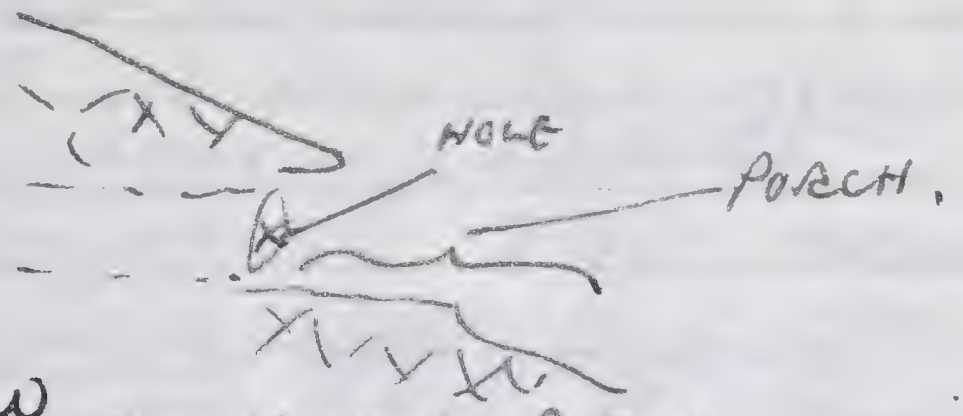


C. ZIEGLER
1956

NEOTOMA FUSCIPES

APR 4 (CONT.) STRAWBERRY CANYON, ALAMEDA CO., CALIF.

HOLES BUT AN ANDER(?) CATKIN & OAK TWIG WITH LEAVES ON SMALL PORCH IN FRONT OF HOLES.



SIDEVIEW OF ENTRANCE(?) HOLE + PORCH

TWIGS ON TOP OF NEST WERE 6-8 IN LONG & PENCILSIZED OR LESS, IN DIA. DEEPER, IN NEST (SEEN STICKING OUT) WERE UP TO 1 IN. IN DIA. SMALLER STICKS SCATTERED OVER ~~EDGE~~ SURFACE OF NEST. HOLES ON 3 LEVELS AT LEAST WITH 2 OR 3 HOLES ON EACH LEVEL. MOST ~~TWIGS~~ STICKS IN NEST FROM BAY (REC. TO RATS) SOME CONIUM ALSO. 2 BAY FRUIT OR SEED-COVERS FOUND ~~NEAR~~ ON PORCHES. MOST HOLES CLUSTERED ON N-FACING (DOWNSLOPE) SIDE OF NEST. NEST ITSELF "BUILT" AROUND (OR AT LEAST CLUSTERED AROUND) SYMPHORICARPUS. SUPPLIED TERRING OFF TOP OF NEST, 1 FT OR SO DOWN FROM APEX FOUND FRESH (OR RECENTLY CUT) TWIGS OF BAY & SOME OTHER TREE IN CHAMBER ABOUT 10 INCHES IN DIAMETER (FLATTENED SPHERE SHAPE) SMALL TUNNEL LEADING OFF TO SMALL (OR OBS) LINED CHAMBER, 4 IN. IN DIA. FOUND ANGIDES LUBRIS IN IT. ON FLOOR OF 1ST LEVEL CHAMBER MANY

C. ZIEGLER
1956

NEOTOMA FUSCIPES

APR 14 (CONT) STRAWBERRY CANYON, AMADOR CO, CALIF.

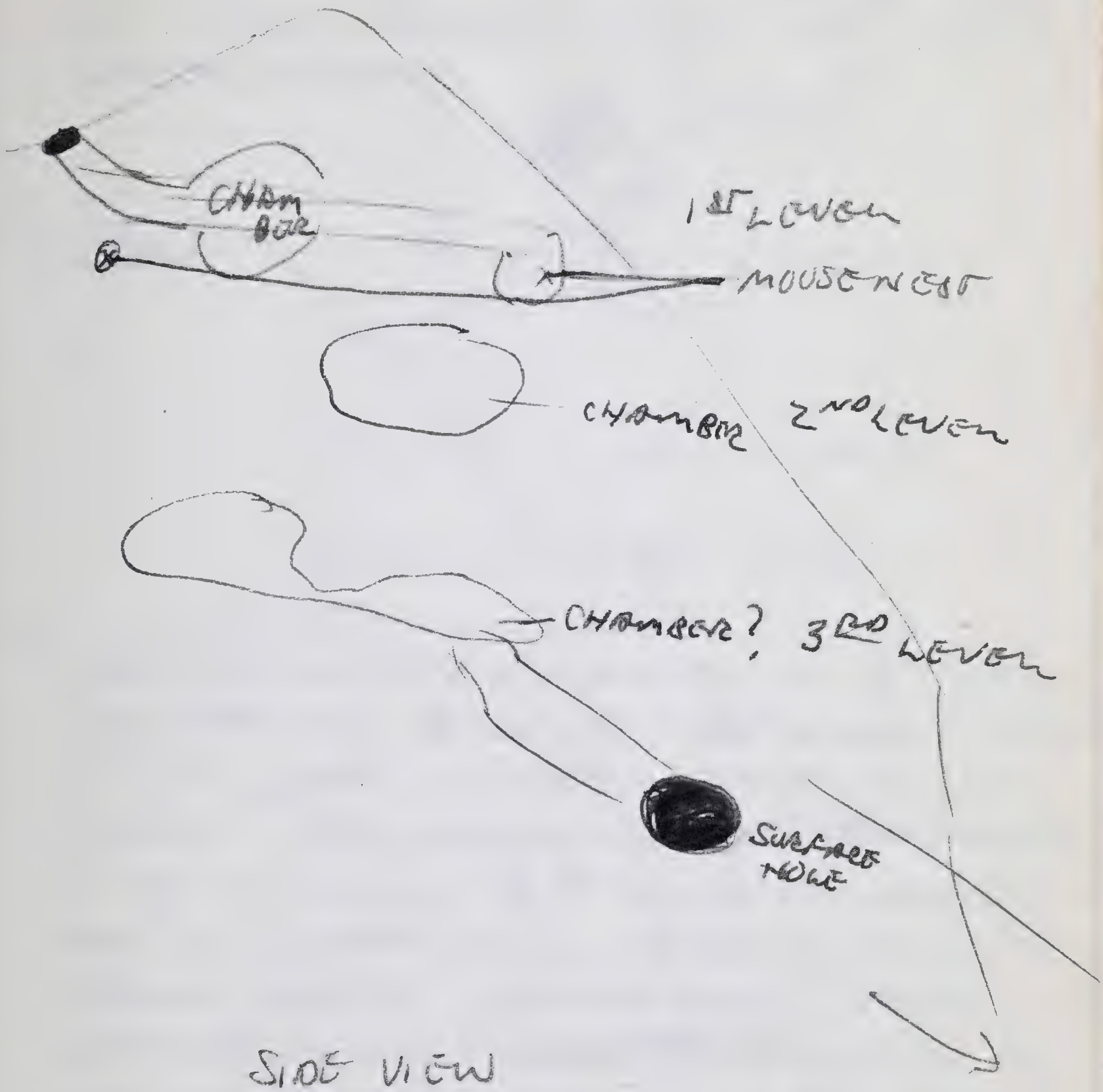
MORE OR LESS RECENT DROPPINGS + ~~MANY~~ MUCH OLD "HUMUS" APPARENTLY FROM DECOMP. OF OLD PELLETS.

FLOOR OF PELLETS ABOUT 6 IN OR LESS DEEP IN THIS OLD HUMUS FOUND 1 ENSATINA ESCHSCHOLTZI + 1 BRADRACH POTENTIATUS. NEST ~~SECURED~~ BUILT AROUND A DROOPING SYMPHORICARPUS BUSH, WITH MAYBE 15 STRANDS, NEST WAS DIFFICULT TO TEAR APART BECAUSE OF THIS BUSHES BRANCHES RAMIFYING THRU IT. FROM TOP TO BOTTOM MANY BEETLES + BUGS FOUND THROUGHOUT NEST IN HUMUS + STICKS, SPROUTING BAY FRUIT FOUND. ON 2ND LEVEL LARGE CHAMBER FOUND RUNNING BACK RIGHT INTO DIRT. FOUND FAIRLY FRESH CUTTINGS OF PINE + LIVE OAK AND SYMPHOR + AN UNIDENTIFIED TREE TWIG IN THE VARIOUS PASSAGEWAYS. NEAREST PINE + OAK + PINE 25-35 FT AWAY. ~~MANY~~ WOOD ON WOOD, INTO BAY FRUITS FOUND. A FEW WERE SPROUTING. DOWN BELOW 2ND LEVEL NEST IS LOOSE HUMUS NOT TOO MANY STICKS, MAYBE OLD STICKS HAD JUST DECOMPOSED. BY 3RD LEVEL HUMUS QUITE DRY IN CENTER OF NEST. NO TUNNELS FOUND SO FAR LEADING INTO (OR OUT INTO) BETWEEN DIRT OF HILLSIDE.

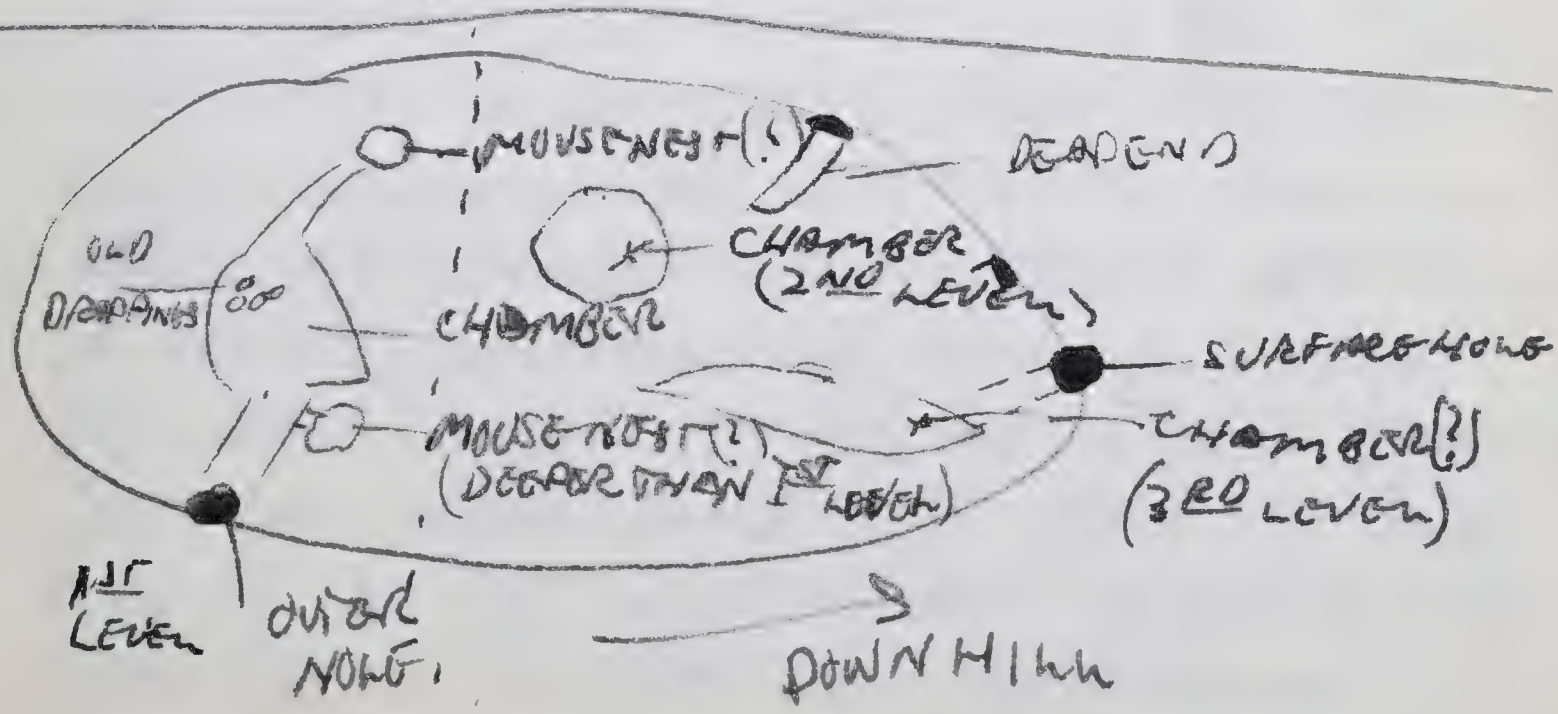
ALSO FOUND SMALL (1½ FT SQUARE) NEST IN ENDOCARPA(?) TREE. RAN TORCH INTO IT + FOUND ~~OBJ~~ U. M. INSIDE.

NEOTOMA FUSCIPES

APR 14 (CONT.) STRAWBERRY CANYON, ALAMEDA CO., CALIF.



SIDE VIEW



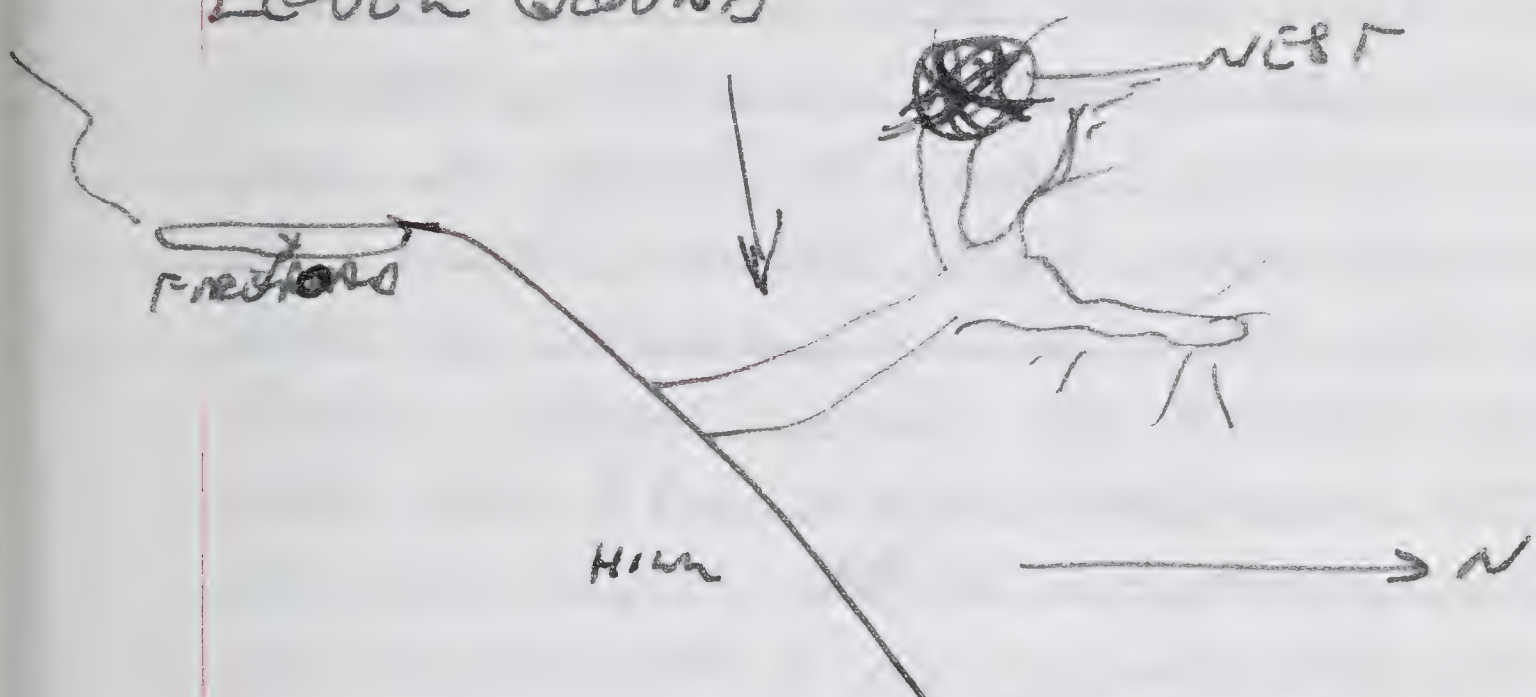
TOP VIEW ~~1ST LEVEL~~

.C. ZIEBLER
1956

NEOTOMA FUSCIPES.

APR 14 (CONT) STRAWBERRY CANYON, ALAMEDA CO., CALIF.

BUT NO RAT. BURROW LEADS TO OTHER TREES BUT ONLY OVER VERY THIN (TWIG SIZED) BRANCHES OF NEST TREE. TRUNK OF TREE RAISED ABOUT 45° ABOVE LEVEL GROUND



SIDE VIEW OF TREE

AROUND NEST 2' IN DIA. & 21 TALL ON GROUND ALMOST BENEATH TREE NEST WITH 1 FRESH CUTTING IN NOTE. ANOTHER NEST, ~~[illegible]~~ (LARGE 4-5 FT TALL 6 FT, IN DIA ABOUT 40 FT AWAY A LITTLE FURTHER DOWN SLOPE. ENTRANCES(?) HERE SHOWED FRESH ~~[illegible]~~ CUTTINGS OF TREES (SPECIES??). NEST TORN UP & 1 PEROMYSCUS NEUEI CAPTURED RUNNING OUT OF CHAMBER. DUG OUT HERE AT BASE OF TREE TRUNK AT SIDE OF NEST (ENTRANCE OF HOLE IN NEST) TUNNEL RAN THRU OGEAYED ~~[illegible]~~ OF ROOT OF TREE AND INTO SLOPE FOR ABOUT 3 FT WITH NO VISIBLE SIDE PASSAGES. ENDED IN HOLLOWED OUT ~~[illegible]~~ BARE CHAMBER ABOUT 5" IN DIA. TUNNEL ITSELF ABOUT 3 IN. IN DIA.

A. C. ZIEGLER
1956

PHENACOMYS LONGICAUDUS

OCT 21 1 MI. N, 0.2 MI E BRIDGEHAVEN, 50± FT. SONOMA CO., CALIF.

11:00 AM. GOT 3 IN SEPARATE NESTS FROM 4 FT. TO 30 FT. UP IN DOUGLAS FIRS. NEST WERE 10 IN. TO 30 IN. IN DIAMETER OF SMALL STICKS, WHOLE DEAD NEEDLES AND (INSIDE) STRIPPED-OFF RESIN DUCT EDGES OF NEEDLES. DRAINAGE HAD COLLECTED FOR A DEPTH OF 2 OR 3 INCHES IN SOME OF LARGER NESTS. ONE OF THESE TREES WAS A SMALL (15 FT) ONE CUT OFF FROM OTHER FIRS BY BRUSH 4 FT TALL. AT 0.8 MI. N BRIDGEHAVEN GOT ANOTHER AT 10:45 AM. 15 FT UP FROM NEST ON LIMB OF FIR — SHAKEN DOWN BY POTE JORDAN. THIS TREE WAS SEPARATED FROM ANY BIG GROVE OF FIRS BY OTHER TREES + GRASS + BRUSH. NEST LOCATED JUST OVER EDGE OF ROAD. THE OCCUPIED NESTS SHOWED FRESH 3–4 INCH-LONG FIR CUTTINGS PULLED INTO CHAMBERS OF NEST — SOME CUTTINGS PARTLY VISIBLE FROM TOP OF NEST. RESIN DUCT STRIPPINGS SHOWED VERY GREEN WHEN NEST WAS TORN APART. NESTS FOUND BOTH NEXT TO TRUNK IN CROTCHES OR OUT ON LIMBS.

SEVERAL OTHER LOCALITIES ALONG RUSSIAN RIVER AND SOUTH FROM MONTE RIO TO FREESTONE ON STATE HIGHWAY 12. OCT AND NESTS TURNED OUT TO BE WOODRAT OR SQUIRREL — NO NESTS SEEN IN REDWOODS ALTHO IN SOME PLACES REDWOODS GROW BESIDE DOUGLAS FIRS.

C. ZIEMER
1956

MICROTUS CALIFORNICUS

MAR 25 POINT ISABEL, CONTRA COSTA CO., CALIF.
CAUGHT 3 IN SALICORNIA AROUND SAN PABLO SPORTMENS CLUB SKEET RANGE. 1 SMALL ONE. ANOTHER EATEN IN TRAP BUT TAIL & H.F. MEAT'S TAKEN & SKULL SAVED. COULD NOT BE SEXED.

MAR 29 3 IN TRAPS IN SALIC, NEAR MAR 25TH LOCATION - CAUGHT ON HIGHER, DRY GROUND WITH SALICORNIA, SOME SORT OF SHRUB 1-2 FT TALL & DRIFTWOOD NONE IN TRAPS ON WETTER GROUND.

APR 8 5 IN TRAPS IN SALIC. BESIDE ROAD LEADING NW INTO MARSH. 1 EATEN PARTIALLY — TRAP PULLED OUT LENGTH OF SPRING THEN ANIMAL PULLED OUT OF TRAP (SOME FUR STILL STUCK IN TRAP) & DRAGGED 10 INCHES MORE UNDER SALICORNIA. TRAP SET IN WELL WORN (BARE GROUND) RUNWAY BESIDE SALICORNIA - DRAGGED DRIFTWOOD LOG ON EDGE OF DRIFTWOOD LINE.
3 OF THESE CAUGHT ON SAME HILLOCK HAD SMALL YELLOWISH OR WHITISH LUMPS ON EARS & TAIL (1 WITH EARS TOO DEFORMED TO MEASURE). NOTES ON NEST (?) & RUNWAYS (PERHAPS OF MICROTUS ARE IN JOURNAL FOR TODAY.

APR 15 3 IN TRAPS IN SALICORNIA & OTHER LOW BUSHES ON DYKE IN MARSH. 45 TRAPS SET ON MAIN DYKE ON NE SIDE OF ROAD GOT ONLY 1 MICROTUS + 1 MUS, AND 5 OTHERS SET ON HILLOCKS WHICH WOULD BE COMPLETELY CUT OFF FROM DYKE (OR WITHIN AN INCH OR SO) AT

C. ZIEGLER
1956

MICROTUS CALIFORNICUS

APR 15 (CONT) POINT ISABEL, CONTRA COSTA CO., CALIF
HIGH TIDE. CAUGHT A MUS ALSO ON DYKE. HOLES ABOUT 1¼-1½ IN. IN DIA. PRESENT ALL ALONG TOP OF DYKE MOSTLY NOT SHELTERED OVERHEAD BY GRASS OR SALICORNIA BUT OFTEN SURROUNDED ON 3 SIDES BY 6" ~~HIGH~~ OR MORE HIGH GRASS WITH WORN PATH LEADING OUT THRU GRASS OR JUST ON TOP OF DYKE IN OPEN ACROSS TO PATCHES OF GRASS ~~OR~~, SALIC OR BUSHES. GRASS IN PATHS EATEN AND/OR WORN OFF CLOSE TO GROUND. SEVERAL OF HOLES SHOWED FRESH, CUT BLADES OF GRASS OR FLOWER LEAVES EITHER OUTSIDE OF HOLE OR ~~SHOT~~ SHOWING DOWN IN IT. NO CUT SALICORNIA STEMS NOTICED IN OR AROUND HOLES AND IT IS PLENTIFUL ALONG SIDES OF DYKE AND IN LOWER, WETTER PORTIONS OF MARSH.

APR 17 BAYSHORE HIGHWAY & BUCHANAN STREET, ALBANY, ALAMEDA CO., CALIF.
1 ♂ IN MUS SPEC. IN SUNKEN FIELD OR "BARROW" PIT ON E SIDE OF BAY SHORE HIGHWAY. SPARSE SALICORNIA & 10 IN HIGH OTHER GRASS. POND IN HALF OF PIT LOOKED FAIRLY PERMANENT WITH A 5-8 FT. BAND OF 6 IN HIGH SALIC ABOUT IT BUT WITH NO RUNWAYS. TRAPS SET IN GRASS & WEEDS & SOME ON HALF BARE GROUND IN WHAT LOOKED LIKE OLD RUNS AROUND 1½-2 IN. HOLES IN GROUND.

ZIEBLER
1956

MICROTUS CALIFORNICUS

APR 17 (CONT.) BAYSHORE HIGHWAY & BUCHANAN STREET, ALBANY, ALAMEDA CO., CALIF.
NO DROPPINGS, GRASS CUTTINGS ETC, NOTICED TWO. CAUGHT 2 MUS NEARBY ALSO.

APR 22 POINT ISABEL, CONTRA COSTA CO., CALIF.
9:15 AM CAUGHT GARTER SNAKE WITH YOUNG(?) MICROTUS INSIDE. SKUNK SAVED. SWALLOWED FOOT FIRST & WERE SLICKED DOWN WITH MUCUS.

APR 29 ~~4~~ CAUGHT IN RUNS IN SALICORNIA ON N SIDE OF NW ROAD INTO MARSH. MANY RUNS FOUND IN USE BY (PROBABLY) MICROTUS BUT ONLY 1 MICROTUS CAUGHT ON EACH OF 4 OF THE RUNWAY-COVERED AREAS WHERE TRAPS WERE PLACED. IN OTHER WORDS NO TWO MICROTUS TODAY WERE CAUGHT CLOSER THAN 40 TO 50 FT FROM EACH OTHER EVEN THO WERE WORN RUNWAYS WITH FRESH SALIC, & GRASS CUTTINGS SHOWED MICE TO BE ACTIVE HERE. OR DOES 1 MOUSE "HOLD" A RELATIVELY LARGE TERRITORY?

MAY 5 WILDCAT CANYON CONTRA COSTA CO., CALIF.
9:20 AM - SAW 1 IN SHALLOW 1 FT. WIDE DITCH BESIDE ROAD COVERED WITH BRUSH ON HILL SLOPE SIDE & ON ROADSIDE WITH 15 INCH HIGH GRASS. MOUSE AND HAD BEEN CUTTING THE HIGH GRASS SINCE 2 LONG (15") STEMS WERE FOUND IN DITCH & PILE OF 2 TO 3 INCH SEGMENTS PILED UP.

ZIEGLER
1956

MICROTUS CALIFORNICUS

MAY 6 POINT ISABEL, CONTRA COSTA CO. CALIF.

AT 8:40 AM HEARD A NEAR SPRING IN SALICORNIA AS I WAS RUNNING TRAPS. FOUND A MICROTUS JUST CAUGHT. ON SMALL 3 X 12 FT HILLOCK IN SALICORNIA MARSH ABOUT 1 FOOT HIGHER THAN MARSH. FLOOR OF MARSH WAS MOSTLY RATHER MUDDY BUT WITH SEVERAL DRY HILLOCKS SURROUNDING THIS ONE WHICH COULD BE USED BY THE MOUSE TO REACH THE HIGHER & DRY ROAD MARSH, 20 FT AWAY. ON THIS HILLOCK I FOUND 3 OR 4 PILES OF 1 TO 1½ INCH LONG SALICORNIA TIPS & SEGMENTS PILED UP 2 OR 3 DEEP & PILE MAYBE 2½ INCHES IN DIAMETER PILES. IN MORE OR LESS WELL DEFINED RUNS AND BOTTOM LAYER OF PILES SHOWED APPARENTLY PITH OF SALIC. MAYBE MOUSE USES THESE PILE FOR FEEDING SPOTS. SPOTS MOSTLY WELL COVERED BUT 1 OR 2 ~~OUT~~ WITH OVERHEAD OPEN. FOUND PILES OF SALIC. LIKE THESE IN MANY OF THE RUN SYSTEMS AROUND MARSH. ON HIGHER GROUND PILES OF FESTUCA SEEMED TO BE THE EQUIVALENTS AND 2 OR 3 TIMES THESE PILES INSTEAD OF BEING OUT IN OPEN OR IN ~~HALF~~ COVERED RUNS WERE UNDER BOARDS OR LOGS. IN SALICORNIA I USUALLY GET TRAPS ON THE PILES OF ~~CUTTINGS~~ CUTTINGS.

J.C. ZIEBLER
1956

MICROTUS CALIFORNICUS

MAY 6 (CONT) POINT ISABEL, CONTRA COSTA CO., CALIF.

CAUGHT 4 OTHER MICROTUS (ONLY) TODAY. 1 MORE ON A HILLOCK & 3 ON BRUSHY ROAD EDGE SLOPING DOWN 2 OR 3 FT TO SALTIC. MARSH.

Nov. 3-4 2 MI. W BADEN STATION, 500± FT., SAN MATEO CO., CALIF.

4 AT 6:00 PM, 3 AT 9:00 PM (NOV. 3) AND 5 AT 6:30 AM (NOV. 4) IN MOIST COW PASTURE. TRAPPED IN CENTERS OF JUNCUS CLUMPS AND ALSO IN BRIAR + FERN UNDERBRUSH AT EDGE OF FIELD ON ROAD SHOULDER. NO STANDING WATER HERE BUT A FEW PARTS OF FIELD HAD WETTISH SOIL. MICE TRAPPED IN BOTH MOIST & DRY CLUMPS. TWO SEVERAL OTHER TRAPS SPRUNG + DRAGGED PERHAPS BY THIS SPECIES. TOOK MANY REITHRODONTOMYS + 2 PEROMYSCUS MANICULATUS IN THESE SAME SPOTS. IN REST OF PASTURE GRASS IS PROBABLY TOO SHORT TO SUPPORT CONCEALING RUNS UNLESS THE MICROTUS HAVE UNDERGROUND RUNS THERE. SAW ONE POSSIBLE MOLE RIDGE AMONG THE JUNCUS CLUMPS.

1.5 MI. S, 1 MI. W MILLBRAE, 400± FT., SAN MATEO CO., CALIF.

2 TAKEN AT 9:00 PM (NOV. 3) + NONE AT 7:30 AM (NOV. 4) ON DAMP SHADY HILLSIDE 15-20' ABOVE UNPAVED ROAD. ABOVE TRAP LINE MORE SHADED WOODS BUT ACROSS ROAD SOME AREAS OF BRACHARIS + SHORT SPARSE GRASS — NOT TYPICAL M. CALIFORNICUS GROUND. TWO. GOT P. CALIFORNICUS,

R. C. ZIEMER
1956

MICROTUS CALIFORNICUS

NOV 3+4 (CONT.) 1.5 MI. S, 1 MI. W MILLBRAE, 400± FT., SAN MATEO CO., CALIF.

P. MANICULATUS + P. TRUEI IN SAME AREA AS THE 2 MICROTUS. GROUND COVER ON NEAR LINE WAS A FEW SCATTERED FERNS, SOME THIN BRIARS + LEAF LITTER. GROUND ~~[illegible]~~ MOIST ~~AND~~ ALSO GRAVELLY IN ~~[illegible]~~ MANY PLACES. NO GRASS.

DEC. 23 2 MI. W TOMALES, 400± FT., T.5N, R.10W, MARIN CO., CALIF.

CAUGHT 3 IN CAREX CLUMP BASES OVER FERNS IN MARSHY SWALE IN COW PASTURE. 2 OF THESE SHOWED SMALL ALBINO PATCHES. ALSO CAUGHT 2 MORE (#'S 437+438) IN SAME HABITAT NEAR WILLIAMSON'S RANCH HOUSE + BARN. NO COWS IN THIS LAST TRAPPING SPOT. IN COW PASTURE SWALE ALSO CAUGHT A SOREX VAGRANS + A RETHIRODONTOMYS MCCALLOTI.

A.C. ZIEGLER
1956

MICROTUS LONGICAUDUS

SEPT. 29 SAGEHEN CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO., CALIF.

5 IN 39 MUS SPEC'S BAITED WITH PECANS IN WET MEADOW BESIDE STREAM ABOUT ½ MILE PAST STATION ON SAGEHEN ROAD. THERE TRAPPED IN 1 FT HI. GRASS BESIDE STREAM UNDER OVER-HANGING GRASS & DIRT EDGE, ALL WITHIN A 30 FT DIA CIRCLE. NO RUNS SEEN IN THE MEADOW EXCEPT ONE SMALL "HOLE" IN GRASS WITH 6 INCHES OF WORN GRASS PATH LEADING OUT OF IT — THIS WAS 5 FT FROM STREAM EDGE. IF THIS IS TYPICAL HABITAT THEY MUST LIKE VERY WET GROUND & TRICKLES OF WATER RATHER THAN JUST THICK GRASS IN LOW MEADOWS. NO OTHER MAMMALS CAUGHT IN THIS MEADOW.

C. ZIEGLER
1956

MUS MUSCULUS

MAR25 POINT ISABEL, CONTRA COSTA CO., CALIF.
6 IN MUS. SPEC'S BAITED WITH WALNUTS IN SPARTINA MARSH IN SAN PABLO SPORTMENS CLUB SKEET RANGE. 1 SMALL ONE WITH ~~[illegible]~~ LIGHT UNDERPARTS & REDDISH HAIR IN EARS. WILL PUT IT UP.

MAR29 5 IN TRAPS NEAR MAR 25TH LOCATION SAME TYPE OF LOW MARSH WITH DRIER KNOLLS. 4 OF THEM ON LOWER GROUND — 1 ON KNOLL. THESE MUS ONLY SLIGHTLY LIGHTER BENEATH THAN ON TOP.

MAR30 3 IN TRAPS ON ROAD ABOUT 3 FT. ABOVE SPARTINA MARSH JUST N.E. OF MAR ~~25 +~~ 29TH LOCATION. ALL IN TRAPS SET ON 2-3" GRASS UNDER BUSHES. — JUST AT RANDOM ALONG EDGES OF ROAD. ALL ~~[illegible]~~ ONLY SLIGHTLY LIGHTER BENEATH THAN ABOVE.

APR8 2 IN TRAPS BESIDE ROAD (AS ON MAR 30, 195[illegible]) IN SPARTINA, CAUGHT CLOSE TO MICROTUS — I GUESS USING SAME RUNWAYS.

APR15 1 IN TRAP ON 5' WIDE DYKE IN MARSH ON NE SIDE OF ROAD. 2'-3' ABOVE HIGH TIDE ~~[illegible]~~ MARK. VEGETATION SPARTINA, FOOT HIGH GRASS IN PATCHES + SOME 2' HIGH SPARSE BUSHES.

APR29 3 IN TRAPS ON N SIDE OF NW ROAD INTO MARSH. (1 CAUGHT BY TAIL — ABOUT MIDDLE OF TAIL AND ANOTHER TAIL ONLY FOUND IN TRAP — ABOUT 1½ INCHES LONG.

A. C. ZIEGLER
1956

ERETHIZON

SEPT. 30 30 MI. SW (APPROX.) SAGEHEN CREEK (NEVADA CO.), PLACER CO., CALIF.

1 DEAD BESIDE ROAD — JUST SEEN FROM CAR. DRY ROAD-SIDE SLOPE LEADING UP TO CONIFERS.

ZIEGLER
1956

SPOTTED SKUNK SPILOGALE PUTORIUS

MAR 24 STRAWBERRY CANYON, U.C. CAMPUS, OAKLAND, ALAMEDA CO., CALIF.

1 IN SCHUYLER RAT TRAP SET IN SHADED CREEK BED UP ON SIDE OF SLOPE OF CANYON. CAUGHT BY NECK BUT STILL ALIVE. PULLED UP BY DR BENSON & IT SPRAYED. HIT IT OVER BACK IN CHEST REGION TO KILL IT. SCENT GLANDS CUT OUT—TO EITHER SIDE OF ANUS & SURROUNDING IT. THEY CAME OUT CLEAN WITH NO LEAKAGE. SCENT NAUSEATING CLOSE UP BUT I LIKE IT AT A DISTANCE.

SEPT. 17 BERKELEY (STRAWBERRY CANYON), ALAMEDA CO., CALIF.

BILL MAHER TRAPPED 1 IN STAN TRAP IN OR NEAR AVIARY (AT U. CAL. POULTRY BLDGS?) WHERE HE HAS BEEN KEEPING CAPTIVE JAEGERS FROM ALASKA. ~~THE~~ SKUNK APPARENTLY KILLED 2 OR 3 OF THE BIRDS (YOUNG BIRDS?)

J.C. BEGLER
1956

ODOCOILEUS HEMIONUS

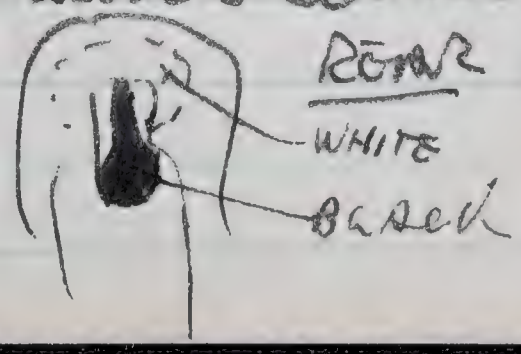
FEB 11 WILDCAT CANYON, CONTRA COSTA CO., CALIF.
9:10 AM. TWO DEER (SEX?) SEEN IN EUCALYPTUS WOODS WITH NOT TOO MUCH AROUND COVER TREES MORE OR LESS BARE UP TO 30' OR SO. MEN WORKING UP HILLSIDE 100 YARDS. WE WERE ON ROAD 50 YARDS AWAY BUT DEER DID NOT APPEAR TOO DISTURBED.

MAR 3 WILDCAT CANYON, CONTRA COSTA CO., CALIF
10:45 AM SAW 1 TAME(?) DEER FOLLOWING BUNCH OF KIDS WHO FED IT. READILY APPROACHED OVER GROUND (FOR HANDOUTS?)

MAR 10 WILDCAT CANYON, CONTRA COSTA CO., CALIF.
9:15 AM - SAME(?) DEER AS LAST MAR 3 SEEN IN TILDEN PARK PICNIC AREA FOLLOWING GROUP OF SCOUTS. COULD BE PETTED, FED ETC.

APR 28 ~~W~~ SAME(?) DEER AS IN MARCH FOLLOWING GROUPS IN TILDEN PARK PICNIC AREA, FOLLOWED GROUPS UP ROADS, ~~THRU~~ PICNIC AREA, ETC. SHOWED LITTLE FEAR OF LARGE BARKING DOG — EVEN APPROACHED IT. THE DOG WAS LEERY OF COMING CLOSE TO DEER, THO. DEER SEEN BROWSING ON YOUNG LIVE OAK LEAVES AND TOPS OF FLOWERING STALKS OF SOME 1½ FT. HIGH PLANT, ?

SEPT. 29 SADDLEBACK CREEK, 6400 FT., 3 MI. NW HOBART MILLS, NEVADA CO., CALIF.
SAW 2 ♀ (OR ♂ WITHOUT SPIKE) ON ROCKY CONIFER SLOPE. THEY TURNED & RAN UP HILL IN STIFF-LEGGED BOUNDS WHEN THEY SAW ME. TAIL: TAIL SEEMED TO HAVE MORE WHITE AT BASE THAN THOSE AT BERKELEY.



A.C. ZIEGLER
1956

ODOCOILEUS HEMIONUS

OCT 20 6.2 MI. S, 3.1 MI E TOMALES BAY, 50± FT., MARIN CO., CALIF.

4:00 AM – 6:00 PM SAW 4 (NONE WITH ANTLERS) ALONG THE ROAD TO McCLURES BEACH. ALSO DR. BENSON "CALLED UP" ♀(?) + [redacted] YOUNG ONE FROM COW PASTURE WITH "WOUNDED ANIMAL" CALL. THE OTHER 4 WERE 2 SINGLES + 1 PAIR (ALL WITHIN 100-150 YDS OF ROAD). FIGHOS HAD GRASS CLUMPS 2-3 FT HIGH + THICKETS OF WILLOW 5 FT HIGH — DEER ALL SEEN IN OPEN TWO

A.C. ZIEGLER
1957

CATALOG

Ziegler, A. C.
Jan.-July. 1957
Catalogue
nos. 439-789

A.C. ZIEGLER
1957

CATALOG

W SIDE BODEGA BAY, SONOMA CO., CALIFORNIA

JAN 7, 1957 (COLLECTED BY CHARLES STASEK IN JULY, 1956 FROM INDIAN KITCHEN MIDDEN MOUND)

PART MANDIBLE PICKUP
439 SEX ? ENHYDRA LUTRIS

BIG BASIN STATE PARK, T.9S, R.3W, 1000± FT. SANTA CRUZ CO., CALIF.

JAN 24 (440 & 441 AT 8:30 AM)

440	♂ (TES 6x9 MM)	PEROMYSCUS	TRUEI (?)	209 - 106 - 24 - 23 (N)	29.0 gm
441	♂ (TES 7x10 MM)	"	" "	215 - 111 - 26 - 24 (N)	36.5 gm.

JAN 25

442	♂ (TES 6x10 MM)	PEROMYSCUS	TRUEI (?)	212 - 109 - 25 - 23 (N)	30.0
443	♀ (4-13 MM EMB'S)	"	"	201 - 104 - 24 - 22 (N)	35.4
444	♀ JUV. (NO EMB'S)	"	"	163 - 84 - 24 - 21 (N)	17.5
445	♂ (TES 6x10 MM)	PEROMYSCUS	CALIFORNICUS	240 - 125 - 27 - 24 (N)	43.6
446	♂ (TES 8x12 MM)	"	"	261 - 145 - 29 - 26 (N)	55.6
447	♀ (2-7 MM EMB'S)	"	"	257 - 135 - 27 - 22 (N) EAR CRUMPLED	50.4
448	♀ (2-3 MM EMB'S 2 SCARS)	"	"	267 - 141 - 27 - 23 (N)	60.2
449	♀ (3-27 MM EMB'S)	"	"	251 - 136 - 28 - 24½ (N)	60.5

SAN PABLO RIDGE, 1000± FT., 2.5 MI. N, 4.0 MI. W ORINDA, CONTRA COSTA CO., CALIF.

JAN 29 COLL. RALPH RAITT.

450	♂ (TESTES 15x32 MM)	SYLVILAGUS		340 - 30 - 75 - 58 (N)	639.0

(NEXT # COLLECTED OCT. 21, 1956, DIED NOV. 17, 1956)

1 MI. N, 0.2 MI. E BRIDGEHAVEN, 50± FT., SONOMA CO., CALIFORNIA

COLL. PETE JORDAN

JAN 30, 1957

451	♂ (TESTES 2x3 MM)	PHENACOMYS	LONGICAUDUS	179 - 76 - 20 - 12 (N)	WT. NOV 1 = 30.2, NOV 5 = 26.9, NOV 17 = JAN 30 = 20.0

(PUTUP) JAN 30 COLL. PETE JORDAN

452	♀ (5 NEW 4 OLD SCARS)	MICROTUS	CALIFORNICUS SSP?	161 - 44 - 20 - 16 (N)	45.0

1 MI. N, 0.2 MI. E BRIDGEHAVEN, 50± FT., SONOMA CO., CALIFORNIA

PUTUP FEB. 1, 1957 COLL. NOV. 3, 1956 # 599 W.J. HAMILTON III

453	♀ (3 OLD SCARS)	PHENACOMYS	LONGICAUDUS	NO MEAS'S - MADE UP FROM MUMMY

A. C. Zielinski
1957

Catalog

.7 mi. N, 2.3 mi. E Martinez, (Salicornia marsh), Contra Costa Co. Calif.

coll. Feb. 15 by Chas Thaeler, Mus.

454	♂	(TES 2x4mm)	Reithrodontomys	raviventris	halicoetes	155-86-19-13 (N)	11.4gm
455	♂	(TES 2x4mm)	"	"	"	146-77-18-13 (N)	10.8
456	♂	(TES 2x3mm)	"	"	"	151-80-19-13 (N)	10.7
457	♀	(NO EMB'S)	"	"	"	143-73-18-14 (N)	10.3
458	♀	(NO EMB'S)	"	"	"	151-79-17-13 (N)	10.1
459	♂	(TES 1½x3mm)	"	"	"	150-82-18-14 (N)	10.0
460	♀	(NO EMB'S)	"	"	"	150-80-19-14 (N)	10.0
461	♂	(TES 2x4mm)	"	"	"	149-76-18-14 (N)	9.6
462	♂	(TES 2x4mm)	"	"	"	141-75-17-13 (N)	9.1
463	♂	(TES 2x4mm)	"	"	"	146-74-17-13 (N)	9.3
464	♀	(2 SCARS ?)	"	"	"	147-77-18-13 (N)	8.7
465	♂	(TES 1½x2½mm)	"	"	"	136-72-17-13 (N)	8.0
466	♂	(TES 2½x5mm)	Mus	musculus		135-64-18-11 (N)	11.5
467	♂	(TES 2x4mm)	"	"		130-62-17-12 (N)	11.5
468	♂	(TES 2x3mm)	"	"		135-62-18-12 (N)	10.4

coll. Feb 16

SKULL ONLY - PICK UP 469	SEX ?		Lepus	californicus			
470	♀	(3 SCARS)	Reithrodontomys	raviventris	halicoetes	156-82-18½-14 (N)	12.4
471	♀	(NO EMB'S)	"	"	"	168-91-18½-13 (N)	12.2
472	♂	(TES 2x3½mm)	"	"	"	151-80-18-14 (N)	11.1
473	♂	(TES 1½x3mm)	"	"	"	150-79-17-13 (N)	11.1
474	♂	(TES 2x4mm)	"	"	"	150-77-18-12 (N)	10.9
475	♀	(NO EMB'S)	"	"	"	147-75-17-13 (N)	10.5
476	♀	(NO EMB'S)	"	"	"	149-82-18-14 (N)	10.4
477	♂	(TES 2x3mm)	"	"	"	150-80-18-13 (N)	10.4
478	♂	(TES 2x4mm)	"	"	"	144-74-17-13 (N)	10.3
479	♀	(NO EMB'S)	"	"	"	147-77-17½-13 (N)	10.3
480	♀	(NO EMB'S)	"	"	"	148-78-17-13 (N)	10.3
481	♂	(TES 2½x4mm)	"	"	"	147-82-18-12½ (N)	10.2
482	♀	(NO EMB'S)	"	"	"	141-78-18-13 (N)	10.2
483	♂	(TES 2x3½mm)	"	"	"	152-84-18-13½ (N)	10.1
484	♂	(TES 2½x4mm)	"	"	"	143-78-16½-13 (N)	10.1

REST OF FEB-16 COLL BY CHAS THAELER

A.C. ZIEBLER
1957

CATALOG

.7 MI. N, 2.3 MI. E MARTINEZ, (SALICORNIA MARSH), CONTRA COSTA CO., CALIF.

COLL. FEB 16 (CONTINUED) BY CHAS THAELER

485	♀ (NO EMB'S)	REITHRODONTOMYS	RAVIVENTRIS	HALICOETES	142-76-18-13 (N)	10.0
486	♂ (TESTES 1x3mm)	"	"	"	143-77-18-13½ (N)	9.8
487	♀ (NO EMB'S)	"	"	"	TAIL BROKEN 144-73-17-13 (N)	9.6
488	♀ (NO EMB'S)	"	"	"	138-72-17-14 (N)	9.6
489	♂ (TES 2x4mm)	"	"	"	149-81-18-13 (N)	9.4
490	♂ (TES 1½x3mm)	"	"	"	143-75-17-13 (N)	9.4
491	♂ (TES 2x4mm)	"	"	"	TAIL BROKEN 140-78-18-14 (N)	9.4
492	♀ (NO EMB'S)	"	"	"	137-69-17-13 (N)	9.3
493	♂ (TES 2x3mm)	"	"	"	144-74-17-12½ (N)	9.2
494	♂ (TES 1½x3mm)	"	"	"	148-78-17-13 (N)	9.1
495	♂ (TES 1½x3mm)	"	"	"	TAIL BROKEN 146-75-18-13 (N)	9.1

(CONTINUED WITH # 498 BELOW)

2.5 MI. E ORINDA, 500± FT., CONTRA COSTA CO., CALIFORNIA

COLL. MAR. 12 BY MIKE MARSH, MVZ.

CO. DEPT. ZOO UNIV. CALIF.

496	♂ (TES 3x6mm)	SOREX	ORNATUS		97-33-12-7 (N)	4.6

MAR. 18 BY MIKE MARSH, MVZ.

497	♂ (TESTES 1x2mm)	SOREX	ORNATUS		96-33-11-8 (N)	4.9

.7 MI. N, 2.3 MI. E MARTINEZ (SALICORNIA MARSH), CONTRA COSTA CO., CALIFORNIA

BY CHAS. THAELER

COLL. FEB. 16 (CONTINUED FROM # 495 ABOVE)

498	♂ (TES 2x3½mm)	REITHRODONTOMYS	RAVIVENTRIS	HALICOETES	TAIL BROKEN 133-68-17-14 (N)	8.5
499	♀ (NO EMB'S)	"	"	"	143-74-18-14 (N)	8.3
500	♂ (TES 2x3mm)	"	"	"	PART TAIL MISSING 101-35-18-13½ (N)	8.2
501	♂ (TES 2x3mm)	"	"	"	TAIL BROKEN 136-70-18-14 (N)	7.6
502	♂ (TES 2½x5mm)	MUS	MUSCULUS		129-59-17-10 (N)	12.0
503	♂ (TES 3x4mm)	"	"		135-64-17-12 (N)	11.9

COLL. FEB. 17 BY CHAS THAELER

504	♀ (2 SCARS?)	REITHRODONTOMYS	RAVIVENTRIS	HALICOETES	165-81-18-13 (N)	12.8
505	♀ (2 SCARS?)	"	"	"	149-78-18-14 (N)	11.5
506	♂ (TES 2x4mm)	"	"	"	154-80-18½-14½ (N)	11.4
507	♂ (TES 3x5mm)	"	"	"	158-81-17-13 (N)	11.1
508	♂ (TES 2x4mm)	"	"	"	150-75-17½-13 (N)	10.3
509	♀ (NO EMB'S)	"	"	"	NO MEAS'S	10.3

CONTINUED WITH 511

A.C. ZIEBLER
1957

CATALOG

STRAWBERRY CANYON, BERKELEY, ALAMEDA CO., CALIFORNIA

MCH. 22 — BY S.B. BENSON ET AL

FOR DEPT ZOO. UNIV. CALIF.

510	♂ (TES 4x6mm)	SOREX ORNATUS	101 - 34 - 11 - 6 (N)		6.0

.7 MI. N, 2.3 MI. E MARTINEZ (SALICORNIA MARSH), CONTRA COSTA CO., CALIF.

COLL. FEB. 17 (CONT.) — BY CHAS. THAELER

CONT'D FROM #509

511	♀ (NO EMB'S)	REITHRODONTOMYS RAVIVENTRIS HALICOETES		144 - 74 - 19 - 14 (N)	10.2
512	♂ (TES 2x4mm)	"	"	"	152 - 85 - 19 - 13 (N)	10.1
513	♂ (TES 2x4mm)	"	"	"	146 - 78 - 18 - 13 (N)	10.0
514	♂ (TES 2x3½mm)	"	"	"	145 - 75 - 18 - 14 (N)	10.0
515	♀ (NO EMB'S)	"	"	"	147 - 76 - 18 - 13 (N)	10.0
516	♂ (TESTES 2½x5mm)	"	"	"	147 - 76 - 17½ - 13 (N)	9.9
517	♂ (TES 1½x3mm)	"	"	"	155 - 83 - 19 - 13 (N)	9.9
518	♂ (TES 2x5mm)	"	"	"	143 - 72 - 18 - 13 (N)	9.8
519	♂ (TES 2x4mm)	"	"	"	147 - 74 - 18 - 14 (N)	9.6
520	♂ (TES 2x4mm)	"	"	"	149 - 83 - 17½ - 14 (N)	9.6
521	♂ (TES 2x4mm)	"	"	"	147 - 75 - 18½ - 12 (N)	9.4
522	♂ (TES 1½x3mm)	"	"	"	145 - 76 - 17½ - 13 (N)	9.4
523	♀ (NO EMB'S)	"	"	"	145 - 76 - 17 - 13 (N)	9.4
524	♀ (NO EMB'S)	"	"	"	142 - 75 - 17 - 12 (N)	9.2
525	♀ (NO EMB'S)	"	"	"	147 - 79 - 18 - 14 (N)	9.0
526	♂ (TES 1½x3mm)	"	"	"	140 - 72 - 18 - 13 (N)	9.0
527	♂ (TES 1½x3mm)	"	"	"	134 - 71 - 18 - 14 (N)	8.9
528	♀ (NO EMB'S)	"	"	"	148 - 76 - 19 - 14 (N)	8.9
529	♀ (NO EMB'S)	"	"	"	134 - 71 - 16 - 13 (N)	8.8
530	♂ (TES 2x4mm)	"	"	"	141 - 76 - 17 - 12 (N)	8.8
531	♀ (NO EMB'S)	"	(MEOTHRIX?)	"	132 - 65 - 15 - 12 (N)	8.5
532	♂ (TES 1½x2½mm)	"	(MEOTHRIX?)	"	137 - 72 - 18 - 13 (N)	8.5
533	♂ (TES 2x3mm)	"	"	"	141 - 74 - 18 - 13 (N)	8.4
534	♂ (TES 2x4mm)	"	"	"	148 - 82 - 18 - 12½ (N)	8.1
535	♀ (NO EMB'S)	"	"	"	128 - 65 - 16½ - 13 (N)	8.0
536	♀ (NO EMB'S)	"	"	"	136 - 71 - 18 - 13 (N)	7.5
537	♀ (5-18mm EMB'S)	MUS MUSCULUS			148 - 69 - 18 - 12 (N)	22.7
538	♂ (TES 4x6mm)	"	"		169 - 80 - 19 - 12 (N)	18.8

A. C. ZIEBLOR
1957

CATALOG

.7 MI. N, 2.3 MI. E MARTINEZ (SALICORNIA MARSH), CONTRA COSTA CO., CALIF.

COLL. FEB. 17 (CONT.) BY CHAS. THAELOR

539	♀	(NO EMB'S)	MUS MUSCULUS	168 - 83 - 18 - 12 (N)	17.5
540	♂	(TES 3x5mm)	" "	135 - 67 - 17½ - 11 (N)	10.8
541	♂	(TES 2½x5mm)	" "	138 - 67 - 17½ - 11½ (N)	10.8

COLL. FEB 15 BY CHAS THAELOR (WT. BY THAELOR ALSO)

542	♂	(TES 2x3mm)	REITHRODONTOMYS RAVIVENTRIS HAMICOETES	158 - 82 - 18 - 13 (N)	11.3
543	♂	(TES 2x3½mm)	" " "	162 - 87 - 19 - 13 (N)	11.3
544	♀	(NO EMB'S)	" " "	145 - 76 - 18 - 13 (N)	10.2
545	♂	(TES 2x4mm)	" " "	141 - 75 - 18 - 13 (N)	9.5
546	♀	(5-17mm EMB'S)	MUS MUSCULUS	157 - 75 - 17 - 13 (N)	24.1
547	♂	(TES 4x6mm)	" "	172 - 81 - 17½ - 12 (N)	19.8
548	♂	(TES 4x6mm)	" "	158 - 76 - 18 - 13 (N)	17.9
549	♀	(NO EMB'S)	" "	140 - 64 - 17½ - 12 (N)	12.6
550	♀	(NO EMB'S)	" "	134 - 63 - 17 - 12 (N)	9.4

COLL FEB 16 BY CHAS THAELOR

551	♀	(4 SCARS?)	REITHRODONTOMYS RAVIVENTRIS HAMICOETES	151 - 80 - 18 - 13 (N)	12.7
552	♂	(TES 1½x3 mm)	" " "	151 - 78 - 18 - 13 (N)	10.9
553	♂	(TES 2x4mm)	" " "	SKULL BROKEN [140] - 74 - 17 - 12½ (N)	10.6
554	♂	(TES 2x3mm)	" " "	148 - 79 - 18 - 12½ (N)	10.5
555	♂	(TES 2x4mm)	" " "	148 - 81 - 18 - 13 (N)	10.4
556	♂	(TES 1½x3mm)	" " "	139 - 71 - 17 - 14 (N)	10.2
557	♀	(NO EMB'S)	" " "	140 - 70 - 16½ - 14 (N)	10.0
558	♀	(NO EMB'S)	" " "	151 - 79 - 18 - 12 (N)	9.8
559	♀	(NO EMB'S)	" " "	138 - 71 - 17 - 13 (N)	9.5
560	♀	(NO EMB'S)	" " "	125 - 67 - 16½ - 12 (N)	9.2
561	♀	(NO EMB'S)	" " "	138 - 72 - 17 - 13½ (N)	8.1
562	♂	(TES 1½x3mm)	" " "	TAIL TIP MISSING [110 - 44] - 16 - 12½ (N)	8.5
563	♀	(NO EMB'S)	" " "	129 - 70 - 17 - 13 (N)	7.4
564	♀	(NO EMB'S)	" " "	TAIL BROKEN [121 - 61] - 17 - 11½ (N)	5.4
565	♂	(TES 4x7mm)	MUS MUSCULUS	168 - 79 - 18 - 11 (N)	20.0
566	♂	(TESTES DESTROYED)	" "	129 - 58 - 15 - 11 (N)	10.2

A.C. ZIEGLER
1957

CATALOG

1.0 MI. N, 2.0 MI. E MARTINEZ, (SALICORNIA MARSH), CONTRA COSTA CO., CALIFORNIA

COLL. FEB 17

567	♀	(NO EMB'S)	SOREX OBNATUS		95 - 36 - 11 - 6 (N)	4.1
568	♂	(TES 3×4mm)	"	"	96 - 36 - 11½ - 6 (N)	5.6
569	♀	(NURSING 4 SCARS)	REITHRODONTOMYS	RAVIVENTRIS	HALICOETES 156 - 76 - 17 - 13 (N)	14.0
570	♂	(TES 2½×5mm)	"	"	" 149 - 77 - 17 - 13 (N)	11.3
571	♀	(5 FRESH, 2 OLD, SCARS)	"	"	" 158 - 87 - 18 - 12 (N)	10.4
572	♀	(NO EMB'S)	"	"	" 154 - 84 - 18 - 13½ (N)	10.2
573	♂	(TES 1½×2½mm)	"	"	" 156 - 85 - 19 - 13½ (N)	10.2
574	♂	(TES 2½×5mm)	"	"	" 147 - 77 - 17½ - 12½ (N)	9.8
575	♂	(TES 2×4mm)	"	"	" 156 - 83 - 18 - 13 (N)	9.7
576	♂	(TES 2×5mm)	"	"	" 152 - 84 - 18 - 13 (N)	9.4
577	♂	(TES 1½×3mm)	"	"	" 135 - 69 - 17 - 13 (N)	9.3
578	♂	(TES 2×3mm)	"	"	" 131 - 68 - 16½ - 12½ (N)	9.2
579	♂	(TES 2×4mm)	"	"	" 141 - 72 - 18 - 13 (N)	9.0
580	♂	(TES 1½×3mm)	"	"	" 136 - 71 - 17 - 12½ (N)	8.9
581	♂	(TES 4×7mm)	"	"	" 144 - 77 - 17 - 13 (N)	8.8
582	♂	(TES 2×4mm)	"	"	" 139 - 71 - 18 - 12 (N)	8.8
583	♀	(2-12mm EMB'S)	"	"	" 154 - 78 - 18 - 12 (N)	8.6
584	♀	(NO EMB'S)	"	"	" 135 - 73 - 17 - 12½ (N)	8.4
585	♀	(NO EMB'S)	"	"	" 139 - 72 - 17 - 11½ (N)	8.2
586	♀	(NO EMB'S)	"	"	" TAIL BROKEN 143 - 80 - 17 - 12½ (X)	7.8
587	♀	(6-6mm EMB'S 10 OF THOM. RESPONSE)	MUS	MUSCULUS	159 - 76 - 17 - 13 (N)	19.1
588	♂	(TES 3×6mm)	"	"	166 - 83 - 19 - 12 (N)	16.8
589	♂	(TES 4×6mm)	"	"	144 - 71 - 16½ - 12 (N)	10.1
590	♂	(TES 2×3mm)	"	"	122 - 59 - ~~18~~ 12½ - 10 (N)	7.3
591	♀	(NO EMB'S)	"	"	116 - 54 - 16½ - 11 (N)	6.2

BERKELEY (STRAWBERRY CANYON), ALAMEDA CO., CALIFORNIA

COLL. MCH 23, COLL BY S.B. BENSON ET AL

TO ZOOLS COLL. & TO DR. QUAY U.C.

592	♀	(NO EMB'S)	THOMOMYS	BOTTAE	195 - 59 - 26 - 6 (N) 106.7

BERKELEY (UNIV. CALIF. CAMPUS), ALAMEDA CO., CALIFORNIA

FOUND DEAD APR. 12 JAY SCHNEEBAUM

BY TO DR. QUAY U.C.

593	♀	(NO EMB'S)	SCIURUS	NIGER	480 - 210 - 69 - 30 (N) 656 GM.

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0.7 MI. N, 0.2 MI. W PINOLE (SAN MARTIN), CONTRA COSTA CO., CALIFORNIA

COLL. APR 11 — BY CHAS. THAELER

594	♀ (3 SCARS)	RETHRODONTOMYS MEGALOTIS ?		140 - 69 - 17 - 13 (N)	10.1
595	♂ (TES 4x7mm)	"	"	188 - 66 - 16 - 13 (N)	9.7
596	♂ (TES 3x5mm)	"	"	137 - 70 - 17 - 13 (N)	9.1
597	♂ (TES 2x3mm)	"	"	119 - 59 - 16½ - 12 (N)	6.8

COLL. APR. 13 — "

598	♂ (TES 4x6mm)	"	"	137 - 66 - 17 - 12 (N)	9.7
599	♂ (TES 4x7mm)	"	"	TAIL BROKEN [139 - 73] - 16 - 12 (N)	9.2

COLL. APR 14 — "

600	♀ (2 VERY FRESH SCARS + 2 EMB'S RESORBING (?))	"	"	140 - 68 - 16 - 13 (N)	11.2
601	♂ (TES 4x7mm)	"	"	141 - 73 - 17½ - 14 (N)	10.7
602	♂ (TES 3x6mm)	"	"	134 - 65 - 15½ - 12 (N)	8.8

COLL. APR 15 — "

603	♂ (TES 3x6mm)	"	"	133 - 67 - 16½ - 13 (N)	9.1

COLL. APR 16 — "

604	♂ (TES 3x6mm)	"	"	TAIL BROKEN [133 - 66] - 16 - 13 (N)	9.7
605	♂ (TES 3x5mm)	"	"	135 - 67 - 17½ - 13 (N)	9.1
606	♂ (TES 3x5mm)	"	"	133 - 66 - 17 - 12 (N)	8.7
607	♂ (TES 1x1½mm)	"	"	132 - 68 - 16 - 12½ (N)	8.2

COLL. APR. 11 — "

608	♀ (6-15mm EMB'S 1-10mm EMB.)	MUS MUSCULUS		160 - 77 - 18 - 12 (N)	24.7
609	♂ (TES 4x6mm)	"	"	174 - 86 - 19 - 12 (N)	22.2
610	♀ (6-4mm EMB'S)	"	"	171 - 81 - 18 - 12½ (N)	22.0
611	♂ (TES 5x6½mm)	"	"	174 - 84 - 18 - 13 (N)	21.9
612	♂ (TES 4x7mm)	"	"	168 - 78 - 19 - 13½ (N)	21.5
613	♂ (TES 4x7mm)	"	"	168 - 78 - 18 - 13 (N)	20.6
614	♂ (TES 3½x6mm)	"	"	155 - 72 - 17 - 12 (N)	19.1
615	♂ (TES 4x7mm)	"	"	165 - 80 - 18 - 11½ (N)	18.3
616	♀ (2 FRESH 2 OLD SCARS)	"	"	151 - 68 - 17 - 11½ (N)	18.1
617	♀ (4 OLD SCARS)	"	"	157 - 72 - 18 - 12½ (N)	17.0
618	♂ (TES 4x6mm)	"	"	152 - 69 - 18 - 13 (N)	16.8
619	♂ (TES 4x6mm)	"	"	155 - 76 - 19 - 12½ (N)	16.4
620	♀ (NO EMB'S)	"	"	151 - 72 - 19 - 12 (N)	14.9

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0.7 MI. N, 0.2 MI. W PINOLE (SALTMARSH), CONTRA COSTA CO., CALIFORNIA

COLL. APR. 11 (CONT.) BY CHAS THAELER.

621	♀ (NO EMB'S)	MUS MUSCULUS	149 - 72 - 17½ - 12 (N)	14.8
622	♂ (TES 3×4mm)	" "	150 - 70 - 19 - 12 (N)	14.6
623	♀ (NO EMB'S)	" "	142 - 67 - 17 - 12½ (N)	13.5
624	♀ (NO EMB'S)	" "	142 - 71 - 17 - 12 (N)	11.8
625	♂ (TES 2×3½mm)	" "	132 - 65 - 18 - 11½ (N)	9.0

S SIDE RUSSIAN RIVER JUST S DUNCAN MILLS (T.7N, R.11W), SONOMA CO., CALIF.

FOUND DEAD APR 22 BY BILL HAMILTON, MVZ.

SKULL ONLY
626 SEX ? NEOTOMICHUS GIBBSI (NO MEAS. OR WT.)

ALASKA (NO OTHER DATA)

REC'D MAY 4.
DUG UP "SOMETIME IN 1890'S" FROM LOYE MILLER

3" TUSK FRAGMENT ONLY
627 SEX ? ELEPHAS ?

1 MI. E APTOS, 150± FT., SANTA CRUZ CO., CALIF.

ACCN 9353 (7)

REC'D MAY 13, 1957, COLL. MAR. 23, 1957, DIED MAY 1, 1957 BY DAN WINKHOFT MVZ

628	♀ (8 FRESH 1 OLD SCAR)	EUTAMIAS	253 - 121 - 37 - 23 (N)	25.3

8 YG. IN LITTER OF 628, (1 YOUNG DISCARDED.) BORN MAR. 25, 1957?, DIED MAY 3, 1957 (39 DAYS OLD)

629	♂ (TES 1½×2mm)	EUTAMIAS	117 - 47 - 21 - 9 (N)	9.6
630	♂ (TES 1½×2½mm)	"	122 - 50 - 22 - 9 (N)	9.9
		"	DIED MAY 4, 1957 (40 DAYS OLD)	
631	♂ (TES 1½×2½mm)	EUTAMIAS	134 - 58 - 24 - 10 (N)	12.3
		"	DIED MAY 5, 1957 (41 DAYS OLD)	
632	♂ (TES 2×3mm)	EUTAMIAS	133 - 58 - 24 - 11 (N)	12.1
		"	DIED MAY 6, 1957 (42 DAYS OLD)	
633	♀ (NO EMB'S)	EUTAMIAS	125 - 51 - 23 - 10 (N)	7.9
634	♂ (TES 1×2mm)	"	129 - 57 - 23 - 10½ (N)	8.4

→ THE 8TH YOUNG LIVED UNTIL JULY 24, 1957 A.C.Z #788

SILVER CANYON, 4600 FT., 5 MI. ENE BISHOP, INYO CO., CALIFORNIA

COLL. MAY 3, 1957 BY W.W. DUNMIRE (PUT UP MAY 15 ON 7 1957)

635	♂ (TESTES 2×5mm)	PEROGNATHUS FORMOSUS	193 - 111 - 25 - 10 (N)	21.1
636	♂ (TES 2×4mm)	" "	199 - 114 - 26 - 11 (N)	20.5

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SILVER CANYON, 4600 FT. 5 MI. ENE BISHOP, INYO CO., CALIF.

COLL. MAY 3 (CONT.) BY W.W. DUNMIRE

637	♀ (NO EMB'S)	PEROGNATHUS	FORMOSUS	188 - 97 - 25 - 11(N)	19.8
638	♂ (TES 2x5mm)	"	"	191 - 104 - 25 - 11(N)	19.7
639	♂ (TES 2x4mm)	"	"	186 - 104 - 25 - 11(N)	19.0
640	♂ (TES 4x7mm)	"	"	193 - 101 - 24 - 11(N)	18.4
641	♀ (NO EMB'S)	"	"	186 - 103 - 24 - 10(N)	17.7
642	♂ (TES 3x6mm)	"	"	181 - 94 - 23 - 10½(N)	17.6
643	♀ (NO EMB'S)	"	"	174 - 89 - 24 - 10(N)	17.4
644	♀ (5 SCARS)	"	"	184 - 102 - 24 - 11(N)	17.0
645	♀ (NO EMB'S)	"	"	185 - 98 - 24 - 10(N)	16.9
646	♀ (NO EMB'S)	"	"	173 - 94 - 23 - 10½(N)	13.6

SILVER CANYON, 7800 FT., 10 MI. ENE BISHOP, INYO CO., CALIF.

COLL. MAY 4 BY W.W. DUNMIRE

647	♂ (TES 4x8mm EPID. +)	PEROGNATHUS	PARVUS	190 - 96 - 24 - 9(N)	25.8

SILVER CANYON, 4600 FT., 5 MI. ENE BISHOP, INYO CO., CALIF.

COLL. MAY 3 BY W.W. DUNMIRE.

648	♀ (2-17mm EMB'S 1 RT. 1 LT.) + CHEEK POUCH CONTENTS	DIPODOMYS	MICROPS?	248 - 141 - 40 - 12(N)	53.1
649	♀ (2 RESORBING EMB'S LT. SIDE)	"	"	268 - 155 - 41 - 13(N)	52.9
650	♀ (NO EMB'S)	PEROMYSCUS	CRINITUS	157 - 77 - 19 - 16(N)	19.1
651	♀ (RESORBING EMB'S ??)	"	"	180 - 89 - 19 - 18(N)	17.5
652	♂ (TES 3½x7mm EPID -)	"	"	171 - 92 - 20 - 18(N)	16.8
653	♀ (NO EMB'S)	"	"	145 - 68 - 20 - 18(N)	16.0
654	♀ (3 RT, 2 LT. SCARS)	"	"	170 - 91 - 20 - 19(N)	15.7
655	♂ (TES 3x5mm EPID -)	"	"	167 - 85 - 21 - 18(N)	15.1
656	♂ (TES 2½x5mm EPID -)	"	"	171 - 87 - 20 - 17(N)	15.0
657	♂ (TES 3x6mm EPID -)	"	"	161 - 88 - 20 - 17(N)	14.9
658	♀ (2 RT., ? LT. FRESH SCARS)	"	"	170 - 90 - 19 - 18(N)	14.9
659	♂ (TES 2x4mm EPID -)	"	"	173 - 94 - 19 - 17(N)	14.8
660	♀ (NO EMB'S)	"	"	157 - 80 - 20 - 17½(N)	14.7
661	♀ (NO EMB'S)	"	"	163 - 86 - 19 - 17(N)	14.6
662	♂ (TES 4x6mm EPID -)	"	"	164 - 88 - 19 - 18(N)	14.5

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SILVER CANYON, 4600 FT., 5 MI. ENE BISHOP, INYO CO., CALIF.

COLL. MAY 3 (CONT.) BY W.W. DUNMIRE.

663	♂	(TES 7x6mm EP10-(?))	PEROMYSCUS CRINITUS		151-73-18-16½ (N)	14.4
664	♂	(TES 2x4mm EP10-)	"	"	161-79-19-19 (N)	14.4
665	♂	(TES 2x4mm EP10-)	"	"	173-93-20-18½ (N)	14.4
666	♂	(TES 2x4mm EP10-)	"	"	(MEAS AFTER SKINNING) 169-91-18-18 (N)	14.4
667	♀	(2 RT, 3 ? LT. SCARS)	"	"	169-92-19-17 (N)	14.2
668	♂	(TES 2x3½mm EP10-)	"	"	163-83-19-18½ (N)	14.1
669	♀	(NO EMB'S)	"	"	169-89-19-17 (N)	14.1
670	♂	(TES 3x5mm EP10-)	"	"	156-83-20-18 (N)	13.8
671	♀	(NO EMB'S)	"	"	165-88-20-17 (N)	13.2
672	♀	(NO EMB'S)	"	"	148-72-19-17 (N)	12.8
673	♀	(NO EMB'S)	"	"	160-80-18-18 (N)	12.5
674	♀	(NO EMB'S)	"	"	160-82-19-16 (N)	11.9
675	♂	(TES 3½x6mm EP10-)	"	"	160-82-20-18 (N)	11.6

COLL. MAY 4 BY W.W. DUNMIRE

676	♂	(TES 4x7mm EP10-)	MICROTUS		168-50-23-14 (N)	38.2

SILVER CANYON, 7300 FT., 10 MI. ENE BISHOP, INYO CO., CALIF.

COLL. MAY 4 BY W.W. DUNMIRE.

677	♀	(NO EMB'S)	MICROTUS		166-51-22-13 (N)	37.2

MT. BARCROFT RESEARCH STA., 12,400 FT., 8 MI. S WHITE MTN., MONO CO., CALIF.

COLL. MAY 7 BY W.W. DUNMIRE.

678	♂	(TES 6x9mm EP10+)	LAGURUS CURTATUS		124-24-18-11 (N)	28.3

SILVER CANYON, 4600 FT., 5 MI. ENE BISHOP, INYO CO., CALIF.

COLL. MAY 5 BY W.W. DUNMIRE.

679	♀	(NO EMB'S)	MUS MUSCULUS		153-73-17-12½ (N)	12.2
680	♀	(3 RT., 1 LT. SCARS)	"	"	TAIL BROKEN + DRIED [145-65]-16-13 (N)	11.8

2¼ MI. W, ½ MI. N OF INVERNESS, MARIN CO., CALIFORNIA

COLL. NOV. 18, 1956 PUT UP MAY 29, 1957 COLL BY MEMBER 200 135 EMBS

TO DR. SOKOLOV, RUSSIA.

681	♀	(NO EMB'S)	SOREX TROWBRIDGEI		115-55-15-6 (N)	5.9

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*ACCN 9357 (H)

LA GRANGE, STANISLAUS CO., CALIFORNIA

PUT UP MAY 29, 1957
COLL. MAY 19, 1957 DIED MAY 26, 1957, (EXCEPT 683)
COLL BY - PAUL ALLEN

682	♀ (1-11mm EMB RT. SIDE)	TADARIDA MEXICANA	93 - 32 - 9 - 18 (N)	WASHED	9.0
683	♀ (1-14mm EMB RT. SIDE)	" "	95 - 30 - 9 - 17	DIED MAY 28, 57	8.1
684	♀ (1-7mm EMB RT. SIDE)	" "	93 - 28 - 9 - 16 (N)	WASHED	8.0
685	♀ (1-10mm EMB RT SIDE)	" "	91 - 27 - 8½ - 16 (N)	WASHED	7.9
686	♀ (1-12mm EMB RT. SIDE)	" "	96 - 30 - 9 - 17 (N)	WASHED	9.3
687	♀ (1-12mm EMB RT. SIDE)	" "	96 - 35 - 9 - 18 (N)	WASHED	8.6
688	♂ (TESTES 1x2mm EPID -)	" "	94 - 31 - 9 - 17 (N)	WASHED	8.2
689	♂ (TES 1x2mm EPID -)	" "	~~93~~ 95 - 36 - 9 - 17 (N)	WASHED	8.0
690	♂ (TES 1x2mm EPID -)	" "	92 - 34 - 9 - 17 (N)	WASHED	7.4

0.7 MI. N, 0.2 MI. W PINOLE, CONTRA COSTA CO., CALIF.

PUT UP MAY 30, 1957
COLL. ~~MAY~~ APR. 15, 1957 BY C. THAELER

691	♂ (TES 5x8mm)	MELOSPIZA MELODIA	IRIS DARK BROWN.	18.4

NORTH FORK CROOKED CREEK, 9800 FT., 2 MI. E WHITE MTN. RESEARCH STATION, MONO CO., CALIFORNIA

PUT UP MAY 30, 1957
COLL. MAY 13, 1957 BY W. W. DUNMIRE

692	♀ (LARGEST OVUM - ~~MM.~~)	" "	IRIS DARK BROWN	30.0

2 MI. N, 2 MI. E McKITTRICK, KERN CO., CALIFORNIA

JUNE 13

693	SKULL ONLY - PICKED UP ♂?	OVIS ARIES	(NO MEAS'S OR WT.)	
MVZ ↓ 694	♂ (TES 3x5mm EPID -)	PEROGNATHUS NINEATOIDES	218 - 131 - 34 - 2 (N)	28.5
MVZ 773 N 9367 695	♀ (NO EMB)	ONYCHOMYS TORRIDUS	124 - 46 - 19 - 15 (N)	12.6

27 ~~MI.~~ (BY ROAD) W NEEDLES, (~~ON~~ HIWAY 66), SAN BERNARDINO CO., CALIFORNIA

JUNE 14

696	♂ (TES 4x7mm EPID -)	PEROGNATHUS FORMOSUS (?)	TAIL TIP MISSING [148 - 72] - 24 - 12 (N)		17.2
697	♂ (TES 4x6mm EPID -)	" "	197 - 116 - 25 - 1 (N)		16.7
698	♂ (TES 4x7mm EPID -)	" "	TAIL TIP MISSING [169 - 87] - 22 - 10 (N)		16.0

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MOUNTAINEER MINE, T.2S, R.24E, RIVERSIDE CO., CALIFORNIA

JUNE 14 — COLL. DR. W. B. QUAY

(#'s 699 – 704 SAVED AS COMPLETE SKELETONONLY IN M.V.Z.)

699 PICKUP MUMMY	♂	(NO DATA)	MYOTIS YUMANENSIS	
700 PICKUP MUMMY	♀	(")	MACROTUS CALIFORNICUS	
701 PICKUP MUMMY	♀	(")	" "	
702 PICKUP MUMMY	♀	(")	" "	
703 PICKUP MUMMY	♂	(")	" "	
704	♂	(")	" "	

2 MI. N, 3 MI. E APACHE JUNCTION, PINAL CO., ARIZONA

JUNE 15

705	♀	(1-15mm EMB; 3-RECORDS)	~~EUCHAETHUS~~ PERIPHILLATUS	186-110-23-8(N)	20.4
706	♂	(TES 3x4mm EPIO +)	" "	194-111-22-9(N)	20.2
707	♂	(TES 2x4 EPIO –)	" AMPHUS?	137-72-20-7(N)	9.3
708	♂	(TES 3x6 EPIO +?)	" "	153-81-20-7(N)	14.0
709	♀	(2-7mm EMB'S L. SIDE)	~~PEROMYS~~ NEOTOMA LEPIDA?	340-168-34-30(N)	166.2

CANYON LAKE, T. 2N, R. 9E (APPROXIMATELY) MARICOPA CO., ARIZONA

JUNE 15

710	♂	(TES 5x8mm EPIO –)	PEROMYSCUS EREMICUS	171-88-20-19(N)	17.7

7 MI. (BY ROAD) SW, ROMERO (ON U.S. 54), HARTLEY CO., TEXAS

JUNE 16

711	"BOX TURTLE"	– (FAIRLY SMALL ONE)

MEADE CO. STATE PARK, MEADE CO., KANSAS

JUNE 16

712		"HORNED TOAD"		(SMALL ONE)	
SKULLONLY-PICKUP ~~713~~	~~♂?~~	~~"RABBIT"~~	DISCARDED		
714	♂	(18-25mm EMBS)	SIGMODON HISPIDUS	275-115-29-19(N)	177.0
715	♀	(NO EMB'S)	" "	178-80-26-15(N)	34.0
716	♀	(NO EMB'S)	" "	160-68-25-14(N)	26.5
717	♂	(TES 7x12mm EPIO –)	" "	191-80-26-15(N)	~~44.5~~
718	♂	(TES 6x10mm EPIO –)	" "	172-73-25-16(N)	28.6

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MEADE COUNTY STATE PARK, MEADE CO., KANSAS

JUNE 17

719	♂ (TES 7X4mm EPID +?)	PEROMYSCUS	MANICULATUS	150 - 63 - 20 - 14(N)	19.4
720	♂ (TES 5X8mm EPID +)	"	"	148 - 66 - 20 - 14(N)	18.6
721	♀ (NO EMB's)	"	"	131 - 55 - 20 - 15(N)	17.3

4 MI. E MEADE CO. STATE PARK, MEADE CO., KANSAS

JUNE 17

722	SKULL FRAGMENTS ONLY PICK-UP ?	PROCYON ~~SKUNK?~~			
723	♂ (TES 6X10mm EPID-)	DIPODOMYS	ORDI	258 - 153 - 42 - 12(N)	64.5
724	♀ (NO EMB's)	NEOTOMA	MICROPUS	247 - 100 - 36 - 23(N)	113.0
725	♂ (TES 5X8mm EPID+)	PEROMYSCUS	MANICULATUS	152 - 64 - 19 - 13(N)	22.5
726	♂ (TES 4X8mm EPID+)	"	"	137 - 55 - 19 - 14(N)	16.3

1 MI. N, 1 MI. E (BY ROAD) BLOOMINGTON, OSBORNE CO., KANSAS

JUNE 20

727	♂ (TES 6X12 EPID +)	PEROMYSCUS	LEUCOPUS?	156 - 65 - 21 - 16(N)	24.6
728	♀ (2 RT, 2 LT. SCARS)	"	"	165 - 71 - 22 - 17(N)	22.2

JUNE 21

729	♂ (TES 6X11 EPID +)	PEROMYSCUS	LEUCOPUS?	170 - 74 - 22 - 16(N)	29.2
730	♂ (TES 6X11 EPID +)	"	"	168 - 73 - 21 - 15(N)	25.2
731	♀ (NO DATA)	"	"	157 - 69 - 21 - 15(N)	20.4

1 MI. N, 6 MI. E (~~BY ROAD~~) HILL CITY, (ON HIGHWAY 24), GRAHAM CO., KANSAS

JUNE 21

732 ONE FOSSIL FISH VERTEBRA (LOST?)

AGATE CAMP GROUND, T. 48 N, R. 5 E, GUNNISON CO., COLO

JUNE 22

733	♀ (2 RT. 2 LT. SCARS)	EUTAMIAS	QUADRIVITTATUS	236 - 101 - 34 - 18(N)	73.3
734	♂ (TES 6X8 EPID+)	PHENACOMYS	INTERMEDIUS?	137 - 32 - 18 - 14(N)	36.2
735	♂ (TES 9X13 EPID+)	MICROTUS	LONGICAUDUS?	193 - 64 - 22 - 14(N)	53.8
736	♂ (TES 8X14 EPID +)	"	"	189 - 62 - 21 - 14(N)	51.2
737	♀ (3 RT, 3 LT. 21 MM EMB's)	"	"	184 - 61 - 21 - 14(N)	49.4

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ABBEE CAMP GROUND, T. 48N, R. 5E, GUNNISON CO. COLORADO

JUNE 22 (CONT.)

738	♂	(TES 8x13 EPID +)	MICROTUS	LONGICAUDUS?	186 - 57 - 21 - 14(N)	48.5
739	♀	(3 RT, 3 LT, 4 MM EMB's)	"	"	183 - 62 - 21 - 15(N)	47.5
740	♀	(3 RT, 3 LT 4 MM EMB'S)	"	"	184 - 63 - 21 - 15(N)	45.5
741	♀	(3 RT, 4 LT OLD SCARS)	"	"	184 - 57 - 21 - 15(N)	46.0
742	♂	(TES 4x8 EPID -)	"	"	141 - 42 - 20 - 13(N)	23.7
743	♀	(NO EMB'S)	"	"	134 - 46 - 20 - 13(N)	15.5
744	♀	(3 RT, 3 LT OLD? SCARS)	NURSING? PEROMYSCUS	MANICULATUS	164 - 65 - 18 - 19(N)	28.4
745	♀	(5 RT, 1 LT, FRESH SCARS)	(JUST GIVEN BIRTH?) "	"	169 - 74 - 21 - 19(N)	28.1
746	♀	(3 RT, 2 LT, FRESH SCARS)	(JUST GIVEN BIRTH?) "	"	161 - 63 - 20 - 19(N)	25.1
747	♂	(TES 5x8 EPID +)	"	"	161 - 69 - 20 - 19(N)	22.9
748	♂	(TES 5x9 EPID +)	"	"	152 - 61 - 21 - 17(N)	21.9
749	♂	(TES 5x7 EPID +)	"	"	— NO MEAS'S. —	21.4

4 MI. N, 4 MI. E HUNTINGTON, EMERY CO., UTAH.

JUNE 22

750	♂	(TES 5x9 EPID +)	PEROMYSCUS	MANICULATUS	148 - 68 - 20 - 18(N)	19.8
751	♀	(1 RT, 2 LT 8 MM EMB'S + 1 RESORBING LT.)	"	"	150 - 65 - 19 - 17(N)	20.0

JUNE 23

752	♂	(TES 6x9 EPID +)	PEROMYSCUS	MANICULATUS	145 - 61 - 20 - 17(N)	21.0
753	♀	(6(?) LT., 1 RT.) FRESH SCARS	"	"	164 - 68 - 20 - 17(N)	25.5
754	♀	(6 RT 2 LT VERY YOUNG EMB'S)	"	"	142 - 64 - 20 - 16(N)	14.6

2.5 MI. S ELY, WHITE PINE CO., NEVADA.

JUNE 24

755	♂	(TES 4x8 EPID +)	PEROMYSCUS	MANICULATUS	159 - 69 - 21 - 17(N)	23.5
756	♂	(TES 3x6 EPID -)	"	"	157 - 65 - 20 - 19(N)	22.0
757	♂	(TES 3x6 EPID -)	"	"	155 - 66 - 19 - 19(N)	22.0
758	♂	(TES 2x6 EPID -)	"	"	151 - 63 - 20 - 18(N)	19.5
759	♂	(TES 2x4 EPID -)	"	"	146 - 61 - 20 - 18(N)	19.3
760	♂	(TES 5x8 EPID +)	"	"	153 - 65 - 20 - 18(N)	19.0
761	♂	(TES 2x4 EPID -)	"	"	140 - 60 - 19 - 19(N)	17.2
762	♂	(TES 2x4 EPID -)	"	"	143 - 63 - 20 - 17(N)	17.2

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2.5 MI. S ELY, WHITE PINE CO., NEVADA

JUNE 24 (CONT.)

763	♂	(TES 1X3 CP10-)	PEROMYSCUS MANICULATUS	144 - 60 - 20 - 18 (W)		16.3
764	♂	(TES 3X5 CP10-)	"	"	140 - 57 - 20 - 18 (W)	16.9
765	♂	(TES 3X6 CP10-)	"	"	146 - 66 - 20 - 17 (W)	15.3
766	♀	(NO EMB'S)	"	"	170 - 77 - 21 - 20 (W)	22.2
767	♀	(2 RT, 2 LT. SCARS)	"	"	157 - 68 - 21 - 17 (W)	22.1
768	♀	(4 RT, 1 LT. 5 MM EMB'S)	"	"	156 - 67 - 20 - 18 (W)	21.0
769	♀	(NO EMB'S)	"	"	161 - 70 - 19 - 17 (W)	20.7
770	♀	(NO EMB'S)	"	"	157 - 66 - 20 - 17 (W)	20.4
771	♀	(NO EMB'S)	"	"	152 - 71 - 20 - 18 (W)	16.5
772	♀	(NO EMB'S)	"	"	145 - 62 - 19 - 17 (W)	15.4
773	♀	(NO EMB'S)	"	"	140 - 57 - 19 - 17 (W)	13.9

FROM #694
OMVZ
ACCN 9367

1 MI. SE INVERNESS, MARIN CO., CALIFORNIA

JUNE 30 — COLL. BY S. B. BENSON

774	♀	(NO EMB'S)	MYOTIS CALIFORNICUS	77 - 35 - 6 - 12 (W)		4.7

BERKELEY, (2116 ALLSTON WAY), ALAMEDA CO., CALIFORNIA

ACCN 9386 (1)

JULY 5 — COLL. BY MISS SUSAN E. CHATTIN

775	♂	(TES 1X2 mm)	TADARIDA MEXICANA	97 - 31 - 9 - 17 (W)		9.3

UNIVERSITY OF CALIFORNIA, BERKELEY, ALAMEDA CO., CALIFORNIA

ACCN 9369 (11)

NOTE: BORN JUNE 1, 1955, DYED BLACK JULY 18, 1955
KILLED JULY 10, 1957 — KNOWN AGE 2 YEARS, 1 MO., 10 D.

775	♀	(NO EMB'S)	(ALBINO LAB MICE) MUS MUSCULUS	210 - 97 - 18 - 16 (W)		29.7
776	♀	(NO EMB'S)	"	"	208 - 100 - 19 - 15 (W)	23.5
777	♀	(NO EMB'S)	"	"	203 - 102 - 19 - 15 (W)	21.9
778	♀	(NO EMB'S)	"	"	212 - 105 - 17 - 16 (W)	25.3
779	♀	(NO EMB'S)	"	"	TAIL TIP MISSING 167 - 58 - 17 - 16 (W)	24.8
780	♀	(NO EMB'S)	"	"	TAIL TIP MISSING 183 - 75 - 18 - 15 (W)	26.6
781	♀	(NO EMB'S)	"	"	191 - 94 - 18 - 16 (W)	26.0
782	♀	(NO EMB'S)	"	" (TUMOR? IN INTESTINE)	TAIL TIP MISSING 148 - 43 - 16 - 16 (W)	22.1
783	♀	(NO EMB'S)	"	"	189 - 91 - 17 - 15 (W)	21.9

A.C. ZIEGLER
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CATALOG

UNIVERSITY OF CALIFORNIA, BERKELEY, ALAMEDA CO., CALIFORNIA.

KILLED JULY 10, 1957 (CONT.)

784	♀ (NO EMB'S)	MUS MUSCULUS	TAIL MISSING? 189 - 82 - 16 - 16 (W)		22.3
785	♀ (NO EMB'S)	" "	193 - 88 - 17 - 15 (W)		21.5

ACC'N 9373 (2) LOWER LAKE (JAGO'S RESORT), LAKE CO., CALIFORNIA.

COLL. D. J. COVEN.

CAPTURED JULY 20, 1957, KILLED + WEIGHED JULY 23.

786	♀ (NO EMB'S)	EPTESICUS FUSCUS	121 - 41 - 10 - 17 (W)		15.3
787	♀ (NO EMB'S)	" "	100 - 36 - 8 - 16 (W)		9.8

1 MI. E APTOS, 150± FT., SANTA CRUZ CO., CALIFORNIA

ACC'N 9374 (1)

(CAPTIVE. LAST OF LITTER OF 8 YG. OF ♀ FROM ABOVE LOCALITY) COLL BY DAN WALLNOFF MVZ.
SEE A.C.Z. # 628-634.

DIED JULY 24, 1957, 12 DAYS OLD WEIGHED + AUT'D JULY 25.

788	♂ (TES 2X 4mm ED 10 -)	EUTAMIAS	232 - 100 - 35 - 20 (W)		51.5

(NOTE: # 789 NOT USED A.C.Z.)

790 ON ARE IN MUSEUM SIZE NOTE-BOOKS ~~FILED IN~~ M.V.Z.

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JAN. 7 W SIDE BODEGA BAY, SONOMA CO., CALIFORNIA

WAS GIVEN PART OF RT. LOWER MANDIBLE OF EMYDRA WITH 3 TEETH IN IT BY CHUCK (CHARLES?) STASEK OF ZOO. DEPT, U. OF CALIF. HE FOUND IT NEAR TOP OF MOUND WITH OTHER BONES, BEADS, ETC. WHILE DIGGING FOR INDIAN IMPLEMENTS IN JULY 1956. MOUND IS DESCRIBED IN MY NOTES OF DEC. 23, 1956.

JAN 24 BIG BASIN STATE PARK, T. 9 S, R. 3 W, 1000± FT. SANTA CRUZ CO., CALIF.

GOT HERE 3:30 PM, TALKED TO RANGER ON DESK AT HDQS. & HE SAID COULD GET PERMIT TO NEAP FROM HEAD RANGER - NOT HERE RIGHT NOW THO - SO NEAP & GET PERMIT TOMORROW(!). DIDN'T CHARGE ME FOR CAMPING EITHER (USUALLY $1.00/CAR) SLEPT IN WASH ROOM AT "G" CAMPGROUNDS. ONLY ONE CAMPING HERE. LIGHTS, HOT WATER. SET OUT 100 MUS SPEC MOST IN DUG-OUT TUNNELS IN GROUND AMONG CREEPING FOREST NEAR IN DAMP PLACES & IN SOME DRY. (SEE MAP) SET 50 MUS SPEC IN "F" CAMPGROUNDS. SOME IN TUNNELS IF PRESENT. SAW & GOT 4 PERomyscus BY 8:30 PM. ~~TRIED FOR COON~~ 2 SAVED (#440 + #441) 1 (OR 2) COON. SLIGHT DRIZZLE FROM TIME TO TIME - LEAVES ON GROUND MOIST - BUT GROUND ITSELF DRY & HARD. CLAY IN SOME PLACES. MANY REDWOODS WITH SOME FERNS IN UNDER-BRUSH. SAW WHAT LOOKED LIKE "CAT TAIL" LEAVES GROWING IN + BESIDE STREAM AT CREEPING FOREST BUT GROUND WAS YELLOW CLAY & CHALKY PACKED. MUSEUM HERE HAS NICE DISPLAY OF BIRDS, SNAKES, LUMBERING, ETC. ALSO NICELY MOUNTED ANIMALS - NEUROTRICHUS TOO. THE NATURALIST RANGER'S NAME IS OLLER BUT OFF THIS WEEK - MAYBE CAN SEE HIM THO & GET SOME NEUROTRICHUS DATA.

A.C. ZIEGLER
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BIG BASIN STATE PARK MAP.

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BIG BASIN STATE PARK MAP

W. Bert

R
M
M
I
U
C

· Big Basin Trails ·

- Legend -

X-TRAPPING LOCATIONS JAN 24 '95

MAIN ROADS

POOR OR NARROW ROADS

STREAMS

TRAILS

LOCKED GATES

0 1/4 1/2 1

- SCALE IN MILES -

THE APPROXIMATE TIME TO WALK A TRAIL FROM HEADQUARTERS TO RETURN TO HEADQUARTERS IS GIVEN, DO NOT TAKE A CHANCE IN THE DARK.

REDWOOD TRAIL - 1 HOUR
METEOR TRAIL - 3½ HOURS
MADDOCKS CR. TRAIL - 3 HOURS
TRAIL BEAUTIFUL - 2½ HOURS
UNION CREEK TRAIL - 3 HOURS
CREEPING FOREST - 2 HOURS

SUNSET TRAIL - 6 HOURS
BERRY FALLS TRAIL - 6 HOURS
PINE MTN. TRAIL - 3½ HOURS
WOODWARDIA TRAIL - 2 HOURS
BLOOM'S CREEK TR. - 2½ HOURS
SHADOWBROOK TRAIL - 3 HOURS

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BIG BASIN STATE PARK MAP

RULES AND REGULATIONS

Regulations established by the State Park Commission emphasize the following:

Smoking is permitted, but be careful with burning materials.

Fires are permitted only in designated stoves and fireplaces and never on the ground.

Natural scenery, plant and animal life receive full protection for the enjoyment of all visitors.

Dead and **down wood** produces humus and is essential for other plant growth. A "cleared appearance" of the undergrowth would destroy the natural aspects of the park.

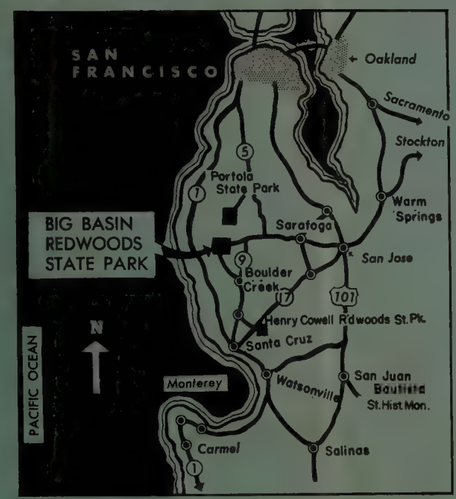
Fuel is sold at park headquarters. Gathering of firewood is prohibited.

Feeding of **deer** is discouraged. Unnatural foods are detrimental to their health.

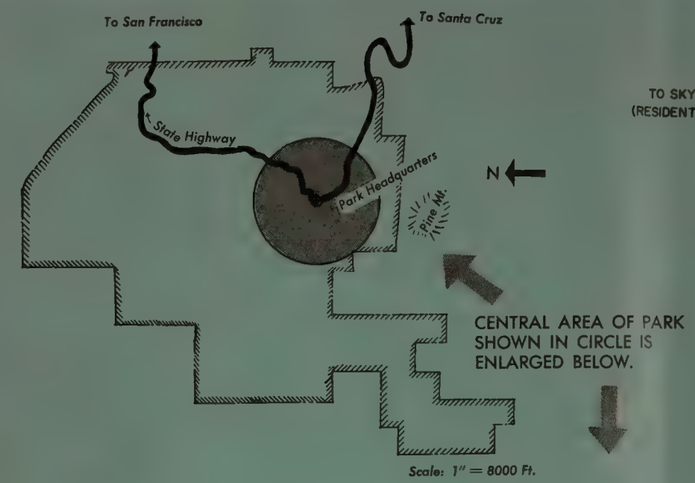
All **refuse** must be placed in designated containers.

Don't be a litterbug.

Ask for a complete set of Rules and Regulations.



KEY MAP



BIG BASIN

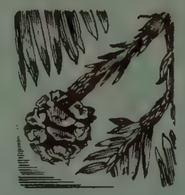
Redwoods State Park

CENTRAL AREA

A.C. ZIEGLER
1957
JAN. 24

JOURNAL
BIG BASIN STATE PARK MAP.

THE STORY OF THE REDWOODS



Big Basin Redwoods State Park contains many outstanding specimens of Coast Redwoods, *Sequoia sempervirens*. Redwoods are internationally famous for their size, their beauty and their economic importance.

Coast Redwood grows naturally within a narrow coastal belt about 40 miles wide, from Curry County, Oregon in the north, to the northern boundary of San Luis Obispo County, California in the south. Its range is within the coastal fog belt. Redwood trees grow to cathedral-like stature while competing with each other for light. Their lofty growth produces a cool, shady climate beneath their crowns where a variety of shade-loving plants grow. Ample moisture for most months of the year produces a luxuriant undergrowth and a deep layer of humus from rotting material. Roots of the redwood must have this thick covering of decayed material for vigorous growth.

The greatest forests of Coast Redwood are found in the northern part of its range, such as at Dyerville where the world's tallest known tree, 364 feet high, is located in Humboldt Redwoods State Park. The Sierra Redwood, *Sequoia gigantea*, also known as Giant Sequoia and Big Tree, is closely related, and occurs in 75 groves in the Sierra Nevada. It is thicker in girth but does not grow as tall nor in massed forests as does the coastal species.

Fossilized sections of redwood trees have been found in many sections of Europe and Asia, as well as in North America. This indicates Sequoia trees once occupied a much greater range.

Hurried visitors to Big Basin can secure an excellent view of the best of the redwoods by using the short, half-mile Redwood Trail which starts at the Campfire Center, follows Opal Creek, and ends near the Administration building.

Discovery of the Coast Redwoods is credited to the Portola Expedition in 1769, at Pajaro River near Watsonville. At that time, approximately 1,500,000 acres of the coastal region supported redwood forests. About 500,000 acres of virgin Coast Redwoods remain, of which 66,000 acres are preserved in State Parks.

Big Basin Plants number approximately 350 species, representing half of the plant families found on the West Coast. Increased human use of the park has unfortunately decreased the quantity of wildflowers. The showy tiger lily, formerly abundant, now is rare in the park.

Wildlife at Big Basin includes black-tailed deer, gray fox, bobcat, coyote, opossum, spotted skunk, and small rodents. Raccoons are the common nightly food robbers of the camps. No bears are of recent record, although grizzly bears formerly roamed through this region.

Bird life is abundant due to the variety of habitats found throughout the park. Prominent birds are the Steller jay, California woodpecker, Oregon junco, chestnut-backed chickadee, hermit thrush, brown creeper, California thrasher and water ouzel. You may identify what you see by visiting the State Park Exhibit in the museum.

Geology. Big Basin, a bowl-like depression in the Santa Cruz Mountains, was formed millions of years ago by the uplifting of its circular rim, and the eroding of its center by stream action. Fossil fish scales and sea shells found in the sedimentary rock of the valleys indicate that this region was formerly under the sea.

BIG BASIN-BIRTHPLACE OF STATE PARKS

Big Basin was not the first State Park to be set aside in California; however, it is the oldest established state park in California still operated as such.

In 1864 Congress granted the Yosemite Valley and the Mariposa Grove to the State of California for park purposes, but these were returned to the federal government after the creation of Yosemite National Park. In 1887 the State Legislature provided for the purchase of 24 acres at Coloma and for the creation of a monument to James W. Marshall, whose discovery of gold in 1848 precipitated the California Gold Rush.

As an outgrowth of this popular interest in historic and scenic areas, the State Legislature in 1902 allocated funds to purchase 3,800 acres in the Santa Cruz Mountains for park purposes, now known as Big Basin Redwoods State Park. Subsequent acquisitions expanded the park to 10,000 acres. The Sempervirens Club, Save-the-Redwoods League, Sierra Club and individual conservationists were instrumental in securing legislation to preserve these trees. They were successful, also, in having the California Legislature in 1927 provide for the establishment of the State Park System. This outstanding system of parks is being expanded to preserve additional examples of the State's outstanding scenic and historic areas, and to meet the outdoor recreational needs of the State's rapidly increasing population.

Some interesting features of the redwoods are due in part to the hazards which have left their marks on the old giants. In September, 1904, a fire swept much of the Big Basin park area. For a period of 14 months one large tree burned within its heartwood producing the chimney tree, which is located on the Redwood Trail.

During the winter of 1952 heavy rains caused an entire area in the vicinity of Gazos Creek to slide downhill. This caused trees to stand at odd angles, and the resulting grove is called "The Creeping Forest."

The people of California can take special pride in the Big Basin Redwoods State Park—it exemplifies the impetus given to the state park movement throughout the United States.

PARK ADMINISTRATION

The State Park System was established in 1927, and today includes over 140 units, comprising more than 560,000 acres with a developed valuation of 48 million dollars. These units include:

1. Outstanding examples of the State's matchless and varied scenery.
2. Historic places and buildings associated with the colorful history of California.
3. Beaches and inland areas important for their recreational value.

The State Park System is administered by the State Park Commission through the Chief of the Division of Beaches and Parks with a staff located in Sacramento. Field units are supervised by six District Park Superintendents who have under their direction park rangers, historical monument curators and other employees.

SERVICES AND FACILITIES

Camping is available in over 260 sites, with a small charge for use of facilities. Camping units include space for one car and tent, wood stove, table, and food locker; water, laundry, sanitary facilities, and hot showers are nearby. **House trailers** are permitted in the park, but no electric, water, or sewer connections are available. Charges are the same as for camping.

Camping Limits are established annually in accordance with demands of the summer season and shall not exceed 30 days in any calendar year.

Picnicking facilities have been provided. The small charge covers use of table, stove, water and sanitary facilities.

Fuel is sold at 25 cents per bundle; processed logs at 10 cents each. The gathering of wood for fuel is prohibited.

Lodge and Cabins, dining room, coffee shop, curio shop, store, and gas station are operated during the summer season by a concessionaire. For information, write to Big Basin Lodge, Big Basin, California.

A **Post Office** is in operation for the summer season. Address: Big Basin, California.

Fishing in shallow creeks is possible, though not considered excellent.

Hiking: Over fifty miles of trails offers an opportunity for a hiker of any age to enjoy the natural beauty of stately, shaded redwood groves, moss and fern-laden stream banks and waterfalls, and vistas from chaparral covered mountains. Ask for a trail map.

Horses are not available within the park and are not permitted on the trails.

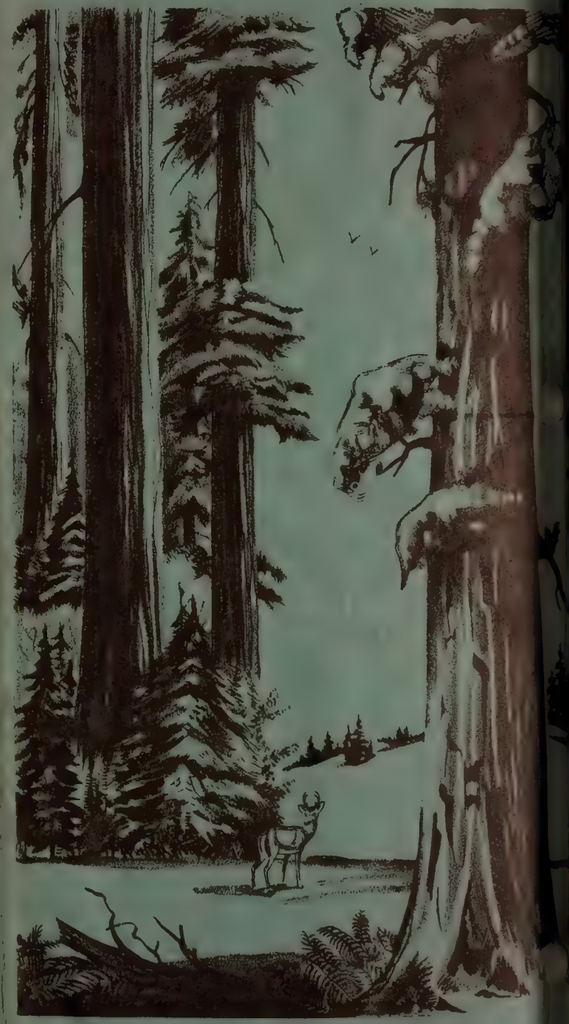
Educational Activities are carried on during the **summer** through a naturalist program which is designed to increase the enjoyment of visitors by acquainting them with the natural aspects of the park. Participation in the naturalist program will provide a more intimate appreciation of the natural features and, therefore, may increase one's enjoyment of the park. Evening Campfire Programs are held in the Campfire Center, and include community singing. Informative talks are presented by Park Naturalists. A schedule of activities is posted in prominent places.

State Park Exhibit: Many of your questions about redwood forests, wildlife, and historical background may be answered by a visit to the free Nature Exhibit located next to the curio shop. Your stay at Big Basin can be made much more enjoyable after observing these displays.

20765 12-55 25M SPO

BIG BASIN

Redwoods State Park



STATE OF CALIFORNIA • DEPARTMENT OF NATURAL RESOURCES
DIVISION OF BEACHES AND PARKS
P. O. BOX 2390 • SACRAMENTO • CALIFORNIA

A.C. ZIEGLER
1957

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JAN 25 BIG BASIN STATE PARK, T.9S, R.3W, 1000+ FT, SANTA CRUZ CO. CALIF.

GOT ABOUT 8 PEROMYSCUS TRUEI OUT OF "F" CAMPBELL TRAPS. SAVED 2 ADULTS & 1 JUV. (#442-444), GOT ABOUT 25+ CALIFORNICUS & TRUEI IN ABOUT EQUAL NUMBERS OUT OF 100 TRAPS IN CREEPING FOREST AREA. HALF OF THEM IMMATURE (DISCARDED) & ABOUT 4 OR 5 OTHERS EATEN IN TRAP. SAVED SOME GOOD CALIFORNICUS & TRUEI. DID NOT GET PERMIT TO TRAP - TALKED TO HEAD RANGER "TINY" PHILBROOK (FILBROOK?) & HE SAID SACRAMENTO HAD TO GIVE IT. WRITE TO: CHIEF, DIVISION BEACHES & PARKS, P.O. BOX 2390, SACRAMENTO 11, CALIFORNIA. TOOK UP TRAPS & LEFT FOR HOME BY WAY N. BOULDER CREEK & BACK UP TO SARATOGA. WHILE CUTTING ~~ANIMALS~~ JUST OUTSIDE OF PARK MET DAN WILHOFF & RALPH RAIST COMING HOME FROM ATOS. THEY HAD TRAPPED PEROMYSCUS CALIFORNICUS, TRUEI & 1 MANICULATUS NEAR THERE. SAW 2 ODOCOILEUS IN PICNIC AREA IN PARK. - 1 LARGE ANTLERS, 1 SMALL BUT NO SPOTS. - NEITHER HAD ~~HORNS~~. RAIN FROM EARLY AM. SO SPEC'S WET. SNOWING IN SANTA CRUZ MTS, NOT STICKING, THO.

BIRDS: CAL. QUAIL - 10
STELLERS JAY - 3
— WOODPECKER - 2
ORE(?) JUNCO - 15

JERRY COOK SAID ONCE ON ZOO 125C (ECOLOGY) FIELD TRIP GOT NEUROTRICHUS NEAR CREEK IN PARK.

JAN 29 SAN PABLO RIDGE, 1000± FT., 2.5 MI. N, 4.0 MI. W ORINDA, CONTRA COSTA CO., CALIF.

PUT UP FOR MVZ OF SYLVILAGUS BACHMANI BROUGHT IN BY RALPH RAIST & VIC LEWIN - CAUGHT NEAR TOP OF RIDGE CLOSE TO INSPIRATION POINT IN QUAIL TRAP.

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JAN 30. 1 MI. N, 0.2 MI. E BRIDGEHAVEN, 50± FT., SONOMA CO., CALIFORNIA

PUT UP FOR MVZ A PHENACOMYS LONGICAUDUS CAUGHT ON TRIP OF OCT. 21, 1956 (SEE THIS JOURNAL THAT DATE) BY PETE JORDAN A GRAD STUDENT AT MVZ. HE HAD KEPT IT ALIVE 'TILL IT DIED ON NOV. 17, 1956 THEN KEPT IT IN PLASTIC BAG IN WARD'S FREEZER 'TIL NOW. HE WEIGHED IT ON NOV. 1, 1956 – 30.2 GM. + ON NOV. 5, 1956 – 26.9 GM. WHEN I PREPARED IT IT WEIGHED ONLY 20.0 GM. COULD MOISTURE HAVE BEEN LOST IN FREEZER, TWO?. # 451 A.C.Z.

ALSO PUT UP A MICROTUS ACTE WAS DISCARDING OR GIVING AWAY BUT WILL HAVE TO GET DATA LATER FROM HIM. SKULL TAG ATTACHED TO ANIMAL SAID "P.J." AND "45.0". I TOOK 45.0 TO BE WEIGHT AT DEATH. THIS IS # 452 A.C.Z.

FEB 1 # 453 IS A PHENACOMYS LONGICAUDUS CAUGHT ON TRIP OF OCT 21, 1956 & KEPT AS CAPTIVE BY WILLIAM J. HAMILTON III IN MVZ. MOUSE DIED, WAS TAGGED BY BILL & LEFT IN REFRIGERATOR (NOT FREEZER) UNWRAPPED FOR 2 OR 3 MONTHS – MIKE MARSH I GUESS WAS GOING TO PUT IT UP. NOONE DID HOWEVER SO BILL GAVE IT TO ME. SOME SHRINKAGE, NO WT & NO MEASUREMENTS ANIMAL VERY DRY, SMELLY & WRINKLED. ORIGINAL # 599 W. J. HAMILTON III.

FEB 15-17 [redacted] .7 MI. N, 2.3 MI. E MARTINEZ (SALICORNIA MARSH), CONTRA COSTA CO. CALIF.

CHAS. THAELER, A GRAD STUDENT IN MAMMALOGY TRAPPED THIS MARSH WITH 90 MUS. SPECS ABOUT 15-20 FT. APART BAITED WITH PEANUT BUTTER FOR NITES BEFORE FEB. 14, 15, 16 & 17. SEE CHART NEXT PAGE FOR RESULTS. MARSH IS ½ MI. OR MORE LONG & AT LEAST ¼ MILE FROM DRY FIELDS (ON OTHER SIDE OF HIWAY & RAILROAD TRACK) TO BAY. MOSTLY SALICORNIA (DRY NOW BUT A FEW GREEN SHOOTS) BUT WITH A FEW RUSHES

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· 7 MI. N, 2.3 MI. E MARTINEZ, (SALICORNIA MARSH), CONTRA COSTA CO., CALIF.

FEB. 17
(CONT.)

CHAS. THAELER IN MARSH — MOST OF REST OF MARSH IS NOT AS OVERGROWN AS THIS SPOT IN PHOTO BUT HAS SALICORNIA (MOSTLY NOT GREEN AT THIS TIME OF YEAR) ONLY A FEW INCHES HIGH OR HAS GRINDELIA + OTHER COARSE GROWTH CLUSTERED ALONG DITCHES THRU THE MARSH. PHOTO LOOKING NORTH FEB. 17, 1957.

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FEB 17 .7 MI. N, 2.3 MI. E MARTINEZ (SALICORNIA MARSH), CONTRA COSTA CO. CALIF.
RUNS, DROPPINGS + FRESH CUT GRASS (NOT SALICORNIA) + GRINDELIA(?) LEAVES ALONG A ROW OF 1-2 FT HIGH MOUNDS BESIDE A DEEP CUT DITCH. CAUGHT 1 MICROTUS WHILE STILL SETTING OUT TRAPS. CAME BACK NEXT A.M. + GOT 22 REITHRODS, 6 MUS 7 MICROTUS (HALF OF ONE EATEN) + 2 SOREX. THIS LOCALITY 1.0 MI. N, 2.0 MI. E MARTINEZ. BOTH LOCATIONS FROM U.S.G.S. QUAD. TOPO CARQUINEZ, CALIF. EDITION OF JULY 1901, REPRINTED 1933. DISTANCE WAS MEASURED ON MAP FROM CENTER OF MASS OF LARGE BLDGS IN WHAT IS NOW PROBABLY DOWNTOWN MARTINEZ. THAELER'S GIRL, MARIANNE HOBBS RAN TRAPS WITH US. THAELER KEPT THE CATCH FROM FEB 14TH (BUT MAY EVENTUALLY GIVE SOME SPEC'S TO MVZ); GAVE ABOUT ½ CATCH OF THE 15TH, ALL 16TH + 17TH CATCH TO MVZ. HE WILL WANT TO KEEP ALL THE MICROTUS PROBABLY TO PUT UP HIMSELF. OF THE ANIMALS CAUGHT IN THE 100 MUS. SPEC'S ON 17TH, THAELER WILL KEEP ALL MICROTUS (8) + GIVE HIS # BUT I WILL KEEP ALL REITHRODS (22), SOREX + MUS TO MVZ. DR BENSON SEEMS TO WANT MUS TO SHOW VARIANCE IN UNDERSIDE COLOR - SOME SPEC'S BEING RATHER LIGHT + OTHERS THE USUAL GREY. WILL PUT UP MOST OF ANIMALS FOR MVZ WITH MY # + CHAS. THAELER AS COLLECTOR.

FEB 17 PLEASANT HILL, CONTRA COSTA CO., CALIFORNIA
CLEANED UP A SKIN + SKULL OF PEROMYSCUS LOTOR BROT. IN BY FRANK J RADOVSKY. SEE SPECIES ACCOUNT. NO MORE DATA THAN THAT ON MVZ LABEL. ANIMAL FOUND DEAD ON HIWAY AT OR NEAR PLEASANT HILL,

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2.5 MI. E ORINDA, 500± FT., CONTRA COSTA CO., CALIFORNIA

COLLECTED MAR 12 PUT UP MAR 18 MIKE MARSH, GRAD STUDENT IN M.V.Z. BROT IN A SOREX ORNATUS TO BE PUT UP FOR ~~MVZ~~ DEPT. OF ZOO. CONNECT. MIKE FOUND IT DEAD IN A LIVE TRAP WHICH ALSO CONTAINED A MICROTUS CALIFORNICUS. LOCATION IS MIKE'S TRAPPING AREA FOR HIS PROBLEM. DESCRIPTION OF AREA MUST COME FROM HIS NOTES.

MAR 18 MIKE BROT IN 2ND SOREX ORNATUS FOUND DEAD(?) IN LIVE TRAP ON SAME STUDY AREA AS MAR. 12 ABOVE. SAID BEETLES WERE WORKING ON BAIT IN TRAPS + SOREX MAY HAVE COME IN TRAPS TO EAT BEETLES. PUT UP FOR ZOO. DEPT. CONN. ALSO. THESE 2 SOREX HAVE MY #'s 496 + 497

STRAWBERRY CANYON, BERKELEY, ALAMEDA CO., CALIFORNIA

MCH. 22 PUT UP A SOREX ORNATUS TRAPPED BY DR. BENSON + ZOO 113 FIELD CLASS IN STRAWBERRY CANYON. SLIGHTLY SKIPPED, FOR ZOO. DEPT CONNECTION. A.C.Z. # 510.

CONN. MCH 23 PUT UP A THOMOMYS BOTTAE ON APR. 17, FOR ZOO 113 CONNECTION CONN BY S.B. BENSON OF AN ON ZOO 113 FIELD TRIP. A.C.Z # 592. TRAPPED SOMEWHERE IN CANYON BUT DON'T KNOW EXACTLY WHERE. DR. BENSON PUT UP A SECOND ONE CAUGHT ON SAME TRIP. FOR ZOO 113 FIELD TRIP.

BERKELEY (UNIV. OF CALIF. CAMPUS), ALAMEDA CO., CALIFORNIA

APR 12 PUT UP A SCIURUS NIGER FOUND DEAD ON CAMPUS BY JAY SONNELL OF MVZ. SKULL CRUSHED SO SAVED AS SKIN ONLY, BODY TO DR QUAY FOR ZOO 106

0.7 MI. N, 0.2 MI. W PINOLE (SALT MARSH), CONTRA COSTA CO., CALIFORNIA

APR 11-16 BEGAN PUTTING UP 12 KEITHRODONTOMYS FROM A RELATIVELY SMALL SALICORNIA MARSH ABOUT

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0.7 MI. N, 0.2 MI. W PINOLE, ~~CONT~~ (SALTMARSH), CONTRA COSTA CO., CALIFORNIA

APR. 11-16 (CONT.) $\frac{1}{4}$ MI LONG + 200-300 FT. THICK AS I REMEMBER IT. A NARROW ROAD SEPARATES MARSH FROM GRAZED PASTURE WITH SHORT GRASS, BUT THAERER'S NOTES WILL PROBABLY HAVE MORE COMPLETE DATA AS HE COLLECTED THESE. HE CAUGHT ALSO MICROTUS + MANY MUS. WILL PUT UP ABOUT 20 MUS FOR MVZ (1 DAYS CATCH - APR. 11). REITHROD'S LOOK A LITTLE SMALL FOR RAVIVENTRIS BUT SORT OF REDDISH FOR MEGALOTIS. NOT SO DARK AS THOSE FROM MARTINEZ MARSH COLLECTED BEFORE BY THAERER.

ALASKA (NO OTHER DATA)

REC'D. MAY 14 DR LOYE MILLER OF MVZ GAVE ME AN INNER FRAGMENT OF ELEPHAS (?) OR AT LEAST "ELEPHANT" TUSK FROM A MORE COMPLETE TUSK SENT TO HIM FROM ALASKA. TUSK WAS DUG UP "SOMETIME IN 1890'S" ACCORDING TO DR. MILLER. HE HAD MADE SEVERAL ARTICLES FROM BROKEN FRAGMENTS OF THE TUSK BEFORE. SAID TUSK CONTINUALLY CRACKED + SPLIT EVEN AFTER BEING DUG UP FOR SUCH A LONG TIME. HE UNDOUBTEDLY HAS MORE COMPLETE DATA ON THE TUSK. (# 627 A.C.Z.)

1 MI. E APTOS, 150± FT., SANTA CRUZ CO., CALIFORNIA

REC'D MAY 13 PUT UP 7 EUTAMIAS FOR MVZ. DAN WILHOFT AND JIM ANDERSON, GRAD'S AT MVZ, CAUGHT A ♀ ON SLOPE JUST SOUTH OF WHAT USED TO BE LAGUNITAS ON MAR 23, 1957. SHE GAVE BIRTH TO 8 YOUNG THE NIGHT OF MAR. 24-25, 1957. ONE DIED APPARENTLY A FEW DAYS LATER ON APR. 8, 1957 AND WAS DISCARDED, OTHERS NURSED ON UP TO MAY 1 WHEN ♀ DIED. YOUNG WERE THEN

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1 MI. E APTOS, 150± FT., SANTA CRUZ CO., CALIF.

REC'D MAY 13 (CONT.) PUT WITH LACTATING LAB RAT IN L.S.B. ANIMAL ROOM BUT APPARENTLY DIDN'T NURSE TOO WELL. ALSO RAT FOOD WAS TRIED ON THEM BUT 6 STILL DIED BETWEEN MAY 3 AND MAY 6, LEAVING 1 STILL ALIVE AS OF TODAY MAY 13. ON MAY 10 ~~THE~~ THIS REMAINING ONE APPARENTLY STILL COULD NOT FEED ON SUNFLOWER OR OTHER HARD-COATED SEEDS. BUT I GUESS WAS BEING FED SORT OF A RAT-FOOD MASH. WILL TRY TO GET IT AS ANOTHER KNOWN-AGE SPECIMEN WHEN IT DIES. (DION - A.C.Z. #788) DION HAD WEIGHED 3 YOUNG ON APR. 19, 1957 (NO NOTE ON EXACTLY WHICH ONES) AND WT'S WERE 12.6 GM, 13.1 GM + 13.0 GM. WT'S. GIVEN ON LABELS ARE THOSE OF THE FROZEN SPECIMENS TODAY. NOTE PUT ON TAGS STATING NUMBER OF DAYS OF AGE AT DEATH, FROM MAR. 25, 1957. A.C.Z. # 628 – 634.

SILVER CANYON, ~~4600 FT., SMALL~~ NE BISHOP, INYO CO., CALIF.

PUT UP MAY 15 ON → BILL DUNMIRE BROT BACK 25 PEROGNATHUS FORMOSUS, 2 PEROGNATHUS PARVUS, 2 DIPODOMYS MICROPS, 28 PEROMYSCUS CRINITUS, 3 PEROMYSCUS MANICULATUS, 4 MICROTUS MONTANUS(?) 1 LAGURUS CURTATUS, 1 NEOTOMA SP.?, + 2 MUS. ALSO A BLUEBIRD + A GREEN-TAILED TOWHEE. I PUT UP MOST MAMMALS FOR MVZ # 635 – 680. 2 P. CRINITUS (IMMATURE), 2 MICROTUS MONTANUS? (IMM) AND NEOTOMA DISCARDED. TOWHEE GIVEN TO DICK BANKS, BLUEBIRD SAVED FOR MY OWN COLL. NEITHER WANTED BY MVZ. OTHER MAMMALS PUT UP BY DR. S.B. BENSON, JOHN LAWRENCE AND W.N. DUNMIRE. DUNMIRE PROBABLY HAS FULL FIELD NOTES ON ALL ANIMALS COLLECTED

(WT.'S BY N.W. DUNMIRE WHEN ANIMALS TRAPPED)

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PUT UP MAY 29

2¼ MI. W, ½ MI. N INVERNESS, MARIN CO., CALIFORNIA

PUT UP SOREX TRAUBRIDGEI CAUGHT BY SOME MEMBERS OF ZOO 135 MAMMALOGY CLASS ON NOV. 18, 1956 & LEFT FORGOTTEN IN FREEZER. WARD WAS THROWING AWAY SO I TOOK IT — WITH IT WERE 2 MORE MAMMALS — A SOREX & A PEROMYSCUS. WT. ON MAY 29. A.C.Z. 681.

PUT UP MAY 29

LA GRANGE, STANISLAUS CO., CALIFORNIA

FRANK J. RADOVSKY OF PARASITOLOGY AT CAL. BROT IN 13 TADARIDA MEXICANA CAUGHT BY PAUL ALLEN (ALSO DR. R. L. USINGER MAY 26) APPARENTLY IN LA GRANGE. 13 (ALL EXCEPT A.C.Z. 683) HAD BEEN WASHED IN DETERGENT SOLN TO ~~REMOVE~~ COLLECT PARASITES. ALSO THESE 13 HAD DIED BETWEEN MAY 25 + MAY 27 (="DIED MAY 26"). #683 HAD DIED ON MAY 28 + HAD NOT BEEN WASHED. ALL WERE COLLECTED ON MAY 19, 1957 AND ALL STARVED TO DEATH. ALL WEIGHED ON MAY 29. A.C.Z 682 — 690. SOME (4) (ACCN. 9357) TO MVZ, ~~SOME~~ TO DR. QUAY (ZOO U.C.) UNSKINNED, + REST TO PERSONAL COLL.

PUT UP MAY 30

0.7 MI. N, 0.2 MI. W PINOLE, CONTRA COSTA CO., CALIFORNIA.

GOT A SONG SPARROW FROM CHAS. THAENER (M.V.Z.) APPARENTLY "SNAP-TRAPPED" IN SALT MARSH ON APR. 15, 1957. A.C.Z. 691, WEIGHED ON MAY 30. FOR PERSONAL COLL.

PUT UP MAY 30

NORTH FORK CROOKED CREEK, 9800 FT., 2 MI. E WHITE MTN. RESEARCH STATION, MONO CO., CALIFORNIA.

GOT BLUEBIRD FROM W. W. DUNMIRE (M.V.Z.) APPARENTLY "SNAP-TRAPPED" ON MAY 13, 1957. A.C.Z. 692. WEIGHED ON MAY 30. FOR PERSONAL COLL.

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2 MI. N, 2 MI. E McKITTRICK, KERN CO., CALIF.

JUNE 13. ARRIVED HERE ABOUT 8:00 AM AFTER LEAVING BERKELEY ABOUT 10:00 AM. SET OUT 67 MVS. STAC'S, 6 RAT TRAPS IN HARD-PACKED DUSTY SANDY SOIL SHOWING NUMEROUS (DIPO?) BURROWS. GROUND BASE ~~WITH~~ EXCEPTING TYPE OF SHRUB WITH SPINES ON ENDS OF BRANCHES & SMALL LEATHERY GREY-GREEN LEAVES. SHRUBS MOSTLY SCATTERED 15 FT. OR MORE APART BUT SOME IN CLUMPS OF SEVERAL BUSHES. ~~THEY~~ BUSHES NOT ABOUT 2 FT. HIGH & A COUPLE OF FEET THRU. CAUGHT ONE ON CHOMPS & 2 DIPOS. 1 OF THESE DIPOS HAD A BROKEN SKULL & WAS GIVEN TO DR QUAY. SAW 5 OR 6 CITELLUS NELSONI ~~ALL~~ ALONG ROAD ~~DOG~~ RUNNING OFF AS CAR WENT BY. SAW 2 OR 3 LIZARDS ON TRAPPING AREA (UTA?). 2 SNAKES THERE THIS AM.. ON CHEVRON GAS CO. MAP LOCATION IS ABOUT 3½ MI. ON ROAD NNE McKITTRICK THEN ½ MI. S ON LITTLE DIRT ROAD. ALL AREA THEREABOUTS IS FAIRLY SIMILAR. DR QUAY SET 40 LIVE TRAPS & GOT SEVERAL DIPOS & PEROGNATHUS (10 IN AM). PICKED UP A WEATHERED SKULL & LOWER MANDIBLE SEPARATED BY 50 FT.. SAW REST OF TRUNK SKELETON NEAR CRANIUM. LOWER MANDIBLE & SKULL GAVE SAME NUMBER AS THEY PROBABLY GO

A. C. BERGER
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2 MI. N, 2 MI. E MCKITTRICK, KERN CO., CALIF.

JUNE 13 TOGETHER. SAW A COW SKUNK 1000 FT. AWAY. MANY DROPPINGS OF SHEEP OR DEER ABOUT. LEFT ABOUT 9:00 AM AFTER PUTTING UP SIGNS. MOON OUT FULL ALL NIGHT. DR QUAY SET HIS LIVE TRAPS WITHIN 2 OR 3 FEET OF BURROWS MOSTLY UNDER OR NEAR BUSHES, ~~SOME~~ SOME IN FURROWS SCRAPED IN SAND ALSO. I SET WITHIN 2-3 FT. OF BUSHES (-TRAPS TIED TO THEM) FIRST DIGGING A FURROW WITH HEEL & SETTING TRAP ACROSS THE FURROW. OTHER TRAPS SET UNDER THE BUSHES. THE 3 MICE TAKEN WERE RIGHT AT THE BASE OF BUSHES - NONE TAKEN IN OPEN. AT ABOUT 9:30 AM. HEARD SEVERAL SQUIRRELS BUT ONLY SAW 1 DIPO BY FLASHLIGHT & COULDN'T CATCH HIM. 2 OR 3 LEPUS SEEN ALONG ROAD YESTERDAY & THIS A.M.

27 MI. (BY ROAD) W NEEDLES (ON HIWAY 66), SAN BERNARDINO CO., CALIF.

JUNE 14 GOT HERE ABOUT 8.00 PM LAST EVENING. PULLED OFF HIWAY 66 ABOUT ½ MI. SE INTO DESERT. SET OUT 67 MUS SPEC'S & 6 RAT TRAPS AROUND CACTI, YUCCAS & CREOSOTE BUSHES. RAN THEM AT 10:00 PM LAST NITE & GOT A YOUNG NEOTOMA LEUCODON? IN A VERY SMALL ROCKY OUTCROPPING & 2 PEROGNATHUS FORMOSUS(?) ON THE GRAVEL & SAND. THIS A.M. HAD ONLY 1 MORE PEROGNATHUS & TAIL OF A SECOND ONE - ONLY 1 OTHER TRAP SPRUNG. DR. QUAY GOT 3 PEROGNATHUS &

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27 MI. (BY ROAD) W NEEDLES, (ON HIWAY 66), SAN BERNARDINO Co., CALIF.

JUNE 14
(CONT)

PHOTO LOOKING SW OVER TRAPPING AREA JUNE 14, 1957. MOST OF BUSHES IN FOREGROUND ARE ABOUT 1 TO 1½ FEET TALL.

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27 MI. (BY ROAD) W NEEDLES (ON HIWAY 66), SAN BERNARDINO CO., CALIF.

JUNE 14 (CONT.) T DIDO. IN HIS LIVE TRAPS, ONE OF HIS SHERMANS HAD BEEN CARRIED SOME DISTANCE AWAY & LEFT WITH A PUDDLE OF URINE ON & AROUND IT. IT WAS BAITED WITH OATMEAL BUT HAD NOTHING IN IT WHEN FOUND. I PUT UP THE 3 PEROGNATHUS BUT GAVE THE YOUNG NEOTOMA TO DR. QUAY. THE GROUND HERE IS MOSTLY OF SMALL GRAVEL WITH MUCH DUST MIXED IN. THERE IS SOME SAND IN SMALL SPOTS IN THE NUMEROUS SHALLOW GULLIES. A FEW ROCKY OUTCROPPING LAY ¼-½ MI. SE OF CAMP BUT I DID NOT TRAP UP ON THEM. SOME OF DR QUAY'S TRAPS WERE PLACED THERE TWO. THERE WERE 3 KINDS OF CACTUS — A "BARREL" CACTUS UP TO 1½ FT TALL; A "FLAT-PADDED" CACTUS UP TO 1 FT. TALL & THE "CHOLLA" (?) CACTUS WITH ROUND BRANCHES UP TO 2-3 FT. TALL. ONLY A FEW OF FIRST TWO TYPES PRESENT BUT MORE OF THE "CHOLLA". ALSO SCATTERED CREOSOTE BUSHES & YUCCAS UP TO 7 FT. TALL. I DID SOME TRAPPING AT BASES OF THESE YUCCAS BUT ONLY TOOK 2 PEROG. THERE. ALL SHRUBS ARE SCATTERED & NOWHERE ARE CLUMPS MORE THAN 3-4 FT. ACROSS MOSTLY LESS. THE GRAVELLY AREAS BETWEEN CLUMPS ARE ABOUT 5 TO 10 FT. ACROSS. | PHOTO TAKEN. LEFT AT 8:00 A.M. FOR NEEDLES & RIVERSIDE MTS.

A.C. Beeler
1957

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MOUNTAINEER MINE, T. 2S, R. 24E, RIVERSIDE CO, CALIFORNIA

JUNE 14 (CONT.) DROVE DOWN HIWAY 95 FROM NEEDLES 2.6 MI. BY ROAD SOUTH OF CO. LINE. TURNED RIGHT INTO THE BASE OF RIVERSIDE MTS. ON A SORT OF A ROAD THRU THE GRAVEL + ROCKS. DROVE JUST 1 MILE + CAME TO THE MOUNTAINEER MINE. SOMEONE HAD JUST CLAIMED IT AS "MOUNTAINEER MINE" (OR RECLAIMED IT SINCE IT HAD BEEN IN CARETAKER ~~FOR~~ YEARS AGO + MUST HAVE CLOSED DOWN QUITE A WHILE BACK) A COUNTY CLERKS SIGN AT END OF ROAD SAID, A NEW SIGN AT TURNOFF ON HIWAY SAID "NEW ERA MINE" "KEEP OUT" BUT IT WAS RATHER SMALL + WAS FACING N-BOUND TRAFFIC ENTERING THE ROAD. WE WENT IN A COUPLE OF SHALLOW OR SHORT MINES BUT SAW NOTHING. THEN INTO ONE WITH A PADLOCKED GATE AT ENTRANCE — THIS ONE WAS QUITE EXTENSIVE - GOING IN ABOUT 150-200 FT + DOWN, BY LADDERS, ABOUT 5 15 OR 20 FOOT LEVELS. ALSO 1 LARGE "CHIMNEY" WENT UP 30 FT. AT LEAST. MINE WERE NOT BEING WORKED. COULD SEE BAT DROPPINGS IN MANY SPOTS ALONG FLOOR OF CAVE INDICATING SOME ROOSTING. DR QUAY WENT DOWN THE LADDERS TO VARIOUS LEVELS + FOUND THE MUMMIFIED MACROTUS ON EACH LEVEL - SEVERAL MORE THAN THE 5 SAWED WERE SEEN BUT PROBABLY DROPPED. ONLY PART OF A MACROTUS(?) MUMMY WAS FOUND ON THE MAIN LEVEL. AT LEAST 5 WERE FOUND ON SECOND LEVEL & MORE BELOW. BAT DROPPINGS WERE SEEN AT LEAST ON ~~SECOND~~ LEVEL. DR. QUAY ALSO FOUND A

B.C. ZEBLER
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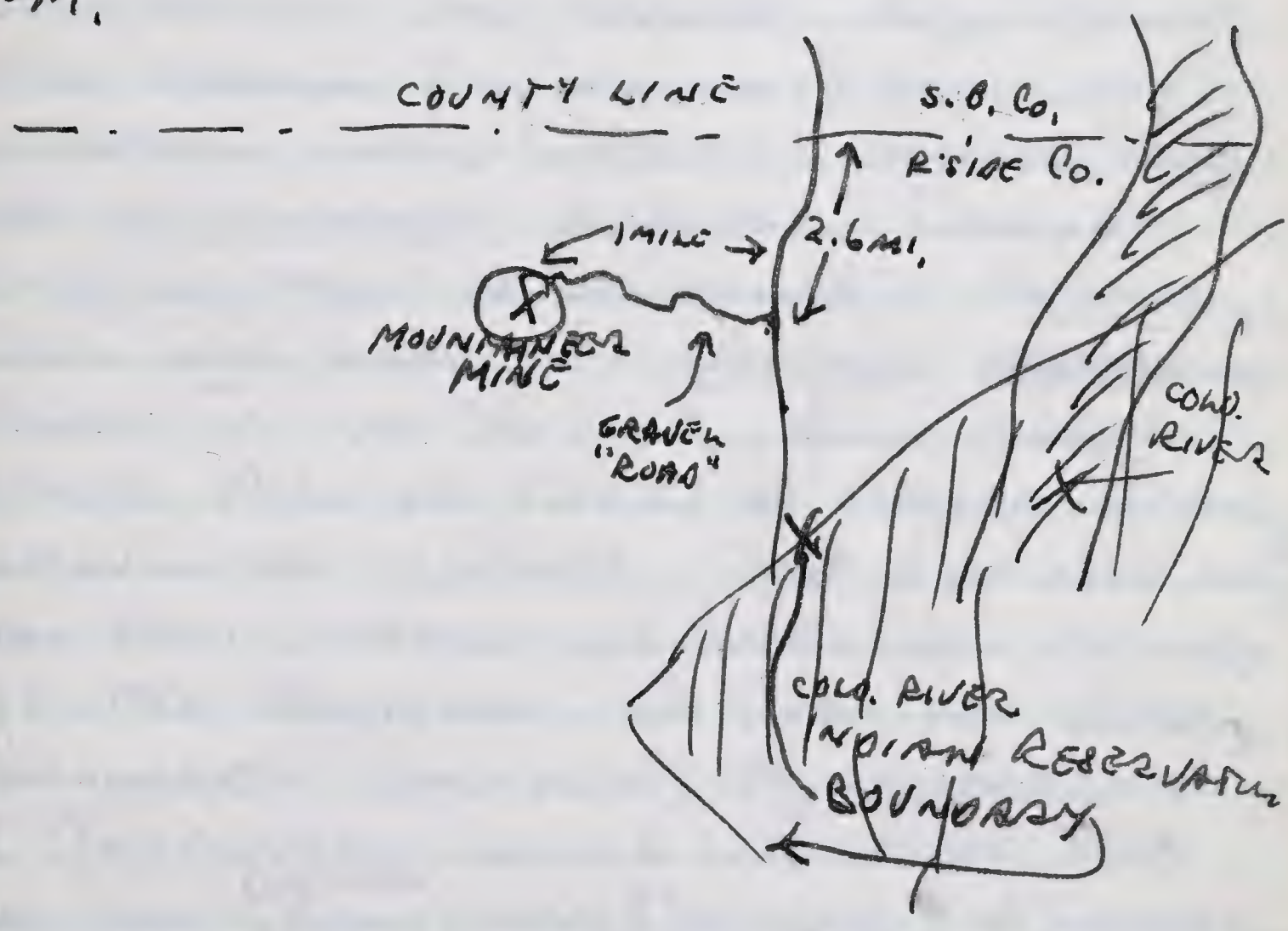
MOUNTAINEER MINE, T. 2S, R. 2E, RIVERSIDE CO., CALIFORNIA.

JUNE 14 (CONT.) MYOTIS MUMMY CAUGHT ON A PIECE OF TWISTED WIRE HANGING FROM CEILING IN MAIN LEVEL. 5 MACROTIS MUMMIES & THE 1 MYOTIS MUMMY GIVEN H'S TO BE TAKEN BACK TO U. CAL. ON FIRST LEVEL SAW 2 BATS FLYING BUT LOST SIGHT OF THEM BEFORE WE COULD GET NETS UP & DIDN'T SEE THEM AGAIN. THEY WERE BIGGER THAN THE LITTLE MYOTIS FOUND & MIGHT HAVE BEEN MACROTIS. GOT TO MINES ABOUT 10:15 AM & LEFT AT ABOUT 11:45 AM.



2 MI. N, 3 MI. E APACHE JUNCTION, PINAL CO., ARIZONA.

JUNE 15 TOOK STATE HIWAY 88 E FROM APACHE JUNCTION (33 MI E CENTER OF PHOENIX) AND AT 3 MILES BY ROAD TURNED OFF ON LITTLE GRAVEL ROAD CALLED TEEPEE ROAD ON STREET SIGN ABOVE 0.8 MI. E & SET ABOUT 35 MJS SPOE'S & 3 RAT TRAPS ABOUT 7:00 PM LAST NITE.

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2 MI. N, 3 MI. E APACHE JUNCTION, PINAL CO., ARIZONA

JUNE 15 (CONT.) AREA HAD A FEW SNAKES WHICH LOOKED LIKE PEOPLE MIGHT SPEND WEEKENDS THERE. ALSO SOME BARBEQUE PITS OUT IN CACTI + MESQUITE(?). GROUND SANDY IN SMALL + LT WIDE WASHES; DUSTY + GRAVELLY ON HIGHER GROUND BUSHES SOMEWHAT SPACED - ABOUT 5-10 FT. APART. SOME "CHOLLA" CACTUS & A LITTLE "SAGUARO". CACTUS GREW HERE ALSO. A FAIR NUMBER OF DIPO-SIZED HOLES UNPLUGGED, WITH A SMALL AMOUNT OF DUST THROWN OUT IN FRONT OF THEM WERE SEEN AMONG THE SHRUBS. ALSO SOME VERY SMALL (~1 INCH WIDE) SHALLOW SCRAPINGS WERE NOTICED - MAYBE DIPO OR PEROGNATHUS DIGGINGS. CAUGHT 4 PEROGNATHUS OF 2 SPECIES, 1 PEROMYSCUS WITH BIG EARS + 1 NEOTOMA [redacted] ON FRONT OF ITS "HOUSE". ALSO SAW ONE OTHER PILE OF STICKS + "CHOLLA" BRANCHES AMONG THE BUSHES. 2 OR 3 OF MUS. SPECIES HAD BEEN DRAGGED OR BRANCHED - POSSIBLY BY THE NEOTOMA. OR QUAY GOT DIPOS, PEROGNATHUS (SOME YOUNG), PEROMYSCUS + 2 ONYCHOMYS IN HIS LIVE TRAPS. HERE WE SAW SCURRAN BIG (CACTUS ?) WRENS, 6-8 GAMBEL'S QUAIL + A WOODPECKER. PEROMYSCUS DISCARDED — ANTS + SUN HARD ON SPECIMENS. PUT UP THESE + FOLLOWING SKINS IN CAR. THE PEROGNATHUS WERE CAUGHT (EXCEPT THE ONE YOUNG ONE) IN THE SHALLOW WASHES WHERE GROUND WAS SANDY + BUSHES OVERHANG THE LOW BANKS IN SPOTS. (LARVAE ALIVE BESIDE TRAP) NEOTOMA HAD ~~WHAT WAS~~ ~~PROBABLY~~ REMAINS OF ~~SOMETHING~~ UNPLEASABLE LARVAE SAC ON THROAT

A. C. ZIEGLER
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CANYON LAKE, T 2N, R. 9E (APPROXIMATELY NOT SURVEYED), MARICOPA CO., ARIZONA

JUNE 15 (CONT) LAST NIGHT AFTER SETTING TRAPS AT PRECEDING LOCALITY DROVE NORTH ON HIWAY 88 TO CANYON LAKE - ONE OF A SERIES OF LAKES WITH THE VERDE RIVER ON W END + SALT RIVER ON E END. EACH LAKE HAS BEEN FORMED BY ITS OWN DAM + THE STRING OF LAKES IS A RECREATIONAL AREA WITH CAMPING SPOTS BUT NO WATER, AT LEAST, AT SOME CAMPGROUNDS. THE LAKE WATER MAY BE SLIGHTLY SALTY + IS SAID NOT TO BE TOO SAFE TO DRINK. SET OUT ABOUT 30 MUS SPEC'S + 3 BAT TRAPS ABOUT 200-300 FT UP SLOPE FROM LAKE AROUND MESQUITE + OTHER BUSHES + CACTUS WITH WINGED BRANCHES. SOME "PRICKLY-PEAR" HERE ALSO BUT SCATTERED. RAN TRAPS AT 10:00 PM LAST NITE + GOT 1 PEROMYSCUS NOTHING IN THEM THIS AM + ONLY 1 OTHER ONE SPRUNG. NO EVIDENCE OF WOOD RATS. GROUND MOSTLY GRAVELLY + HARD PACKED — A VERY FEW DIPO-LIKE HOLES SEEN UNDER BUSHES BUT APPARENTLY NOT IN USE. LOCATION IS SECOND CAMPGROUND ALONG CANYON LAKE GOING E ON HIWAY 88. DR QUAY HAD NOTHING IN HIS LIVE TRAPS THO I HEARD ONE BEING RATTLED AROUND AT 10 PM LAST NITE. ONE WAS FOUND SPRUNG, EMPTY, + CARRIED OR ROLLED OUT OF THE TRAPLINE. DR QUAY WAS UP ~~BEFORE~~ ABOUT 4:30 AM THIS MORNING + SAW SMALLISH BATS ALREADY FLYING THRU ~~AND~~ OVER

D.C. ZIEGLER
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CANYON LAKE, T. 2N, R. 9E, MARICOPA CO., ARIZONA (APPROXIMATELY NOT SURVEYED)

JUNE 15 (CONT.) THE MESQUITE (?) + OTHER BUSHES. THEY FLEW AT LEAST 'TIL 6 AM. THERE WERE BEES OF SOME SORT AT THE YELLOW FLOWERS OF SOME OF THE BIGGER TREES OR BUSHES HERE + THE BATS MAY HAVE BEEN AFTER THEM. DR QUAY TOOK 2 SHOTS + GOT 1 MYOTIS? SAID THEY WERE SLOW FLYERS. HE ALSO HAD A MIST NET UP WITH TOP AT 6 FT. BETWEEN 2 LARGE BUSHES BUT NO BATS IN IT. ALSO SAW A YELLOW-ORANGE + BLACK ORIOLE AT CHAMBERLINES. AT LAKE SAW 2 PERIHULOTIA IN MESQUITE BUSHES, 2 OR 3 COWBIRDS. DRIVING BACK TO APACHE JCT. TO PICK UP OUR OTHER PARTS SAW A STRIPED CHIPMUNK (TAMIAS DORSALIS?) CLAMBERING UP A ROCK BANK. SAW SAW 2 OR 3 SYLVILAGUS AUDUBONI? WHITE-WINGED + MOURNING DOVES + A TURKEY VULTURE. PEOPLE FISHING IN LAKE TOOK CATFISH, SNIPED(?) BASS + BLUEGILLS. LEFT ROOSEVELT JUNCTION ABOUT 9:30 AM FOR GLOBE + SHOWLOW VIA US 60, 70, 80, 90, + ARIZONA 77. TRAVELED ALL DAY ACROSS MOST OF NEW MEXICO ON U.S. 60 THEN ON U.S. 54 TO SANTA ROSA, N.M. WHERE WE STOPPED TO SLEEP IN A FIELD 3 MI. E OF TOWN. NO TRAPPING THIS NIGHT. ON ROAD AT NITE SAW 5 OR 6 DEAD, 3 OR 4 SMALLER MICE RUNNING ACROSS HIWAY + 15-20 RABBITS (LEPUS AND SYLVILAGUS ??). GOT TO SLEEP AT 10:15 PM UP AT 4:15 AM + ATE AT TUCUMCARI. 2 STRIPED SKUNKS SEEN DEAD ON ROAD THRU NEW MEXICO.

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7 MI. SW (BY ROAD) ROMERO (ON U.S. 54), HARTLEY CO., TEXAS

JUNE 16 SAW MANY BOX TURTLES ALONG & KILLED ON HIWAY. STOPPED & PICKED UP 3 AT ABOVE LOCALITY. 2 LARGE ONES TO DR. QUAY, 1 SMALL ONE TO MYSELF. AT 1 MI. W ROMERO SAW A HARNESS TOAD(?) & STOPPED — COULD NOT FIND IT AGAIN BUT DID CATCH A LITTLE SCALOPORUS (?) FOR DR. QUAY. HERE (1 MI. W ROMERO) SAW AN ORANGE & BLACK ORIOLE WITH WHITE PATCHES IN WINGS. TIME - 9:15 (W. TEXAS TIME). ONE TURTLE HAD DRIED POND ALGAE ON ITS SHELL. COUNTRY IS FLAT TO SLIGHTLY ROLLING WITH A FAIR AMOUNT OF GRASS & SMALL PLANTS — MANY SMALL "SUNFLOWERS" — STRIP OF LAND 50' TO EACH SIDE OF HIWAY HAS A LITTLE MORE VEGETATION THAN THAT GROUND BEYOND THE FENCE AROUND GRAZED LAND. SOME OPEN DIRT & GRAVEL SPOTS ALONG HIWAY TWO. 3 OR 4 UNIDENT'D. D.O.R. SNAKES SEEN. VERY SUNNY & PRETTY HOT — NOT TOO MUCH WIND.

MEADE CO. STATE PARK, MEADE CO., KANSAS.

JUNE 16 & 17 GOT TO PARK IN MIDDLE OF DUST STORM WHICH LASTED ~~[illegible]~~ AT LEAST 'TIL MIDNITE. SET 35 MVS SPEC'S & 3 BAT NETS IN 1-2 FT. HI GRASS & SEDGE ALONG EDGE OF FISH BROODER PONDS IN OR NEAR PARK. THERE WERE ABOUT 5 OR 6 PONDS BUT NOT KEPT UP WELL. THERE IS A ROAD ALONG ONE END OF THEM & A FOOT WIDE CONCRETE AQUEDUCT AT THE OTHER — WE NETTED

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1957

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MEADE CO. STATE PARK, MEADE CO., KANSAS

JUNE 16, 1957 (CONT) ALONG THE AQUEDUCT END BETWEEN AQUEDUCT + POND. SOME RUNS WITH GRASS CUTTINGS WERE SEEN & TRAPS PLACED MOSTLY IN THESE. THIS WAS ABOUT 4:30 P.M. BY 5 P.M. JUNE 16 I HAD 3 YOUNGER SIGMODON. I RAN TRAPS AGAIN AT DUSK (ABOUT 9 OR 9:30 PM) + HAD 6 MORE SIGMODON. ONE OF THESE WAS A NICE ADULT ♀. REST YOUNG. DUST COVERED EVERYTHING WITH A BROWN LAYER. THIS AM AT ABOUT 5:30 AM HAD 3 MORE YOUNG SIGMODON, 3 PEROMYSCUS + 1 MUS. MANY OTHER TRAPS SPRUNG + EMPTY GONE — MAYBE ADULT SIGMODONS. DR QUAY CAUGHT SEVERAL ADULT SIGMODON + PEROMYSCUS IN LIVE TRAPS IN SIMILAR TERRITORY. WE WERE TRAPPING FOR SYNAPTOMYS WHICH ACC. TO MAMS OF KANSAS HAD BEEN TAKEN NEAR AT THE BROODER PONDS BUT WE GOT NONE. ALSO LOOKED OVER MARSHY SPOTS AT S END OF LAKE LABRADEE + AT PLACES NEAR THE BUFFALO PENS BEHIND ONE OF THE PICNIC GROUNDS BUT SAW NO RUNWAYS OF ANY KIND. PUT UP SOME OF THE SIGMODONS + ALL PEROMYSCUS; DISCARDED MUS WITH BROKEN SKULL. FOUND 2 BOX TURTLES — 1 DIGGING IN DIRT BACKWARD BESIDE POND AQUEDUCT AT 5:00 PM — TOOK IT OUT OF HOLE + REPLACED IT. IT WAS STILL THERE WORKING AROUND IN HOLE AT 9:00 PM + STILL THERE AT 5:30 AM JUNE 17. NO EGGS FOUND IN HOLE. ALSO CAUGHT

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MEADE CO. STATE PARK, MEADE CO., KANSAS

JUNE 16 + 17 (CONT.) A FLATTISH "MUSK TURTLE" BESIDE AQUEDUCT (GIVEN TO DR QUAY). AT 5:30 P.M. SAW A SMOOTH "HARNESS TOAD" FLOATING ASIDE DOWN IN AQUEDUCT & CONNECTED IT ALIVE. MANY OF THE ~~FAM~~ TYPICAL WESTERN BIRDS SEEN IN PARK WHICH IS SORT OF AN OASIS OF COTTONWOODS, ELMS ETC WITH A SPRING & LITTLE CREEK IN THE MIDST OF DRIER FARMING & GRAZING COUNTRY. WE COULD NOT EXACTLY DETERMINE JUST WHERE BOUNDARIES OF PARK WERE — SO LAKE LABARBEE; THE PICNIC GROUND WITH THE SPRING (WATER GUSHING OUT OF A PIPE BESIDE THE PARKING LOT) & THE BROODER PONDS ALL CALLED MEADE CO. STATE PARK. BIRDS: CROW, TURKEY VULTURE, W. MEADOWLARK, DICKCISSEL, BLUE JAY, YELLOW-BILLED CUCKOO (2), CRESTED FLYCATCHER (MANY), E. KINGBIRD, ~~RED~~ HEADED W. PECKER, + A KITE OR HAWK WITH SHARP WINGS LIGHTISH HEAD & NECK & WHITE "TRAILING EDGES" OR "FLAPS" ON WINGS - SOARING (5 OR 6 SEEN), KILLDEER, GR. BLUE HERON (?)

AT TWILIGHT & JUST AFTER DARK MANY JACKRABBITS & COTTON TAILS SEEN ON & BESIDE ROAD. THIS AM. AT 5:00 SAW TURKEY VULTURES SITTING ON TELEPHONE POLES ALONG SAME ROAD - PERHAPS BECAUSE OF RABBITS WHICH MAY HAVE BEEN KILLED BY CARS. THERE IS A STATE BIRD HATCHERY HERE & MANY PEACOCKS LOOSE AROUND PICNIC AREAS LOOKING FOR HANDOUTS. THEY ALSO KEEP BISON IN A PEN NEAR

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MEADE CO STATE PARK, MEADE CO., KANSAS

JUNE 16 +17 (CONT.) MAIN PICNIC GROUNDS + WE SAW 4 OR 5 OF THEM. PICKED UP A RABBIT SKULL BESIDE 1 OF THE BROOKER PONDS!

4 MI. E MEADE CO. STATE PARK, MEADE CO., KANSAS

JUNE 16 +17 ~~(CONT.)~~ AFTER SETTING TRAPS AT THE PONDS (SEE ABOVE) DROVE E ON STATE HIWAY 98 UNTIL WE CAME TO SLIGHTLY HILLY OR GULLYISH COUNTRY + STOPPED BESIDE A LOW GULLY WITH A LITTLE WATER + COTTONWOOD TREES. SET ABOUT 30 MUS. SPEC'S + 3 RAT TRAPS AROUND MUDDY SPOT + UP DRY GULLIES + ON DRY SLOPES WITH SPARSE FLOWERS + GRASS. THIS WAS ABOUT 7:00 PM JUNE 16. RAN TRAPS AT ABOUT 7:00 AM + GOT 3 PEROMYSCUS (ONE OF THEM IMM. - DISCARDED), A DIPO ORDI, + A WOOD RAT - ONLY 2 OR 3 OTHER TRAPS SPRUNG. PICKED UP SKULL FRAGMENTS OF SKUNK(?) BESIDE ROAD ASSOCIATED WITH A SCATTERED SKELETON. SAW A COTTONTAIL THIS A.M. HERE. ALONG THIS HIWAY SAW 4 OR 5 DEAD GOPHER SNAKES - 2 OF THEM 4 TO 5 FT. LONG. DR. QUAY GOT 2 DIPOS, PEROMYSCUS + AN ONYCHOMYS ALL ON THE DRY SIDE OF THE ROAD WHERE HE HAD 15 LIVE TRAPS. WE DID SEE 2 ACTIVE DIPO(?) HOLES ON BANK 10 FT. FROM ROAD IN SANDY SOIL BUT REST OF AREA SEEMED VERY SPARSE OF ANIMAL LIFE - WERE SURPRISED TO CATCH AS MUCH AS WE DID. GUTTED, WEIGHED + TAGGED MY MAMMALS HERE AND SKINNED THEM IN CAR DURING DAY. ANTS GOT THE DIPO + PEROMYSCUS IN TRAP PRETTY BADLY. ABOVE LOCALITIES ARE ON MOST GAS STATION MAPS.

A.C. ZIEBLER
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UNIVERSITY OF KANSAS CAMPUS, DOUGLAS CO, KANSAS

JUNE 17 – 20. ARRIVED 5:00 PM JUNE 17 FOR 3 DAYS SOC. MAMMALOGISTS MEETING. CAMPUS WITH MANY TREES + LAWNS. MANY BIRDS: E. BLUE JAY, CRESTED FLYCATCHER, E. FLYCATCHER, DICKCISSEL, ROBIN, W.(?) MEADOWLARK, CATBIRD, MOCKING BIRD + BROWN THRASHER, ENG. SPARROW, YELLOW-BILLED CUCKOO. SURROUNDING COUNTRY LOWER FREEMONT. LEFT AT 1:00 PM FOR NEXT LOCALITY BY WAY OF U.S. HIWAY 24.

1 MI. N, 1 MI. E (BY ROAD) BLOOMINGTON, OSBORNE CO., KANSAS.

JUNE 20 + 21 DE QUAY, HIS WIFE + I ARRIVED HERE ABOUT 7:30 PM TO REP + CAMP. WE TOOK THE SECOND (SMALL DIRT) ROAD LEADING NORTH AFTER PASSING THE TOWN OF OSBORNE ON U.S. HIWAY 24. (4 MI. BY ROAD EAST OSBORNE. BLOOMINGTON SHOWS ON GAS STATION MAPS BUT IS ONLY A GRAIN ELEVATOR + A GARAGE OR SO ALONG THE ROAD. WE WENT ABOUT 1 MI. N ON DIRT ROAD + DROVE OFF TO RIGHT (EAST), INTO A SMALL GRAVEL OR SAND PIT BEING WORKED. SET 6 T MVS SPEC'S + 6 RAT TRAPS IN WOODS SURROUNDED BY FIELDS PLANTED IN SOMETHING THAT RESEMBLED CORN BUT PROBABLY WASN'T. WOODS MOSTLY HACKBERRY, BOXELDER WITH MUCH GRASS, SUNFLOWERS + LOGS + BRUSH + OR MORE NEOTOMA NOTES 2 FT. OR SO WERE SEEN AROUND BASES OF TREES OR ALONG FALLEN TRUNKS. ALSO SET SOME OF TRAPS OUT IN "CORN" FIELDS (PLANTS THIN + ONLY

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1 MI. N, 1 MI. E (BY ROAD) BLOOMINGTON, OSBORNE CO, KANSAS

JUNE 20 6 INCHES TANK) AND ON GRAVEL IN
T24 (CONT) WET STREAM BEDS — WATER NOT
RUNNING. RAN THEM AT ABOUT 9:30
P.M. JUNE 20, & GOT 2 PEROMYSCUS
TOR BOTHER TRAPS SPRUNG. AT 5:30
A.M. JUNE 21 RAN TRAPS & GOT 3 MORE
PEROMYSCUS (ONE 5 TAKEN IN
WOODS). SAW A JACKRABBIT AS
WE LEFT & LAST NIGHT SCARED
UP WHAT I THOT WAS A COTTONTAIL
RABBIT IN GRASS ALONG FOREST
EDGE. BIRDS. MEAD. E (1), MOURNING
DOVES. DR QUAY SET 40 LIVE TRAPS
IN SAME WOODS — RATHER AT RANDOM
AS MINE WERE SET ALSO — & GOT 2
YOUNG NEOTOMA, 1 PEROMYSCUS & 1 PEDOMYS
(DEAD IN LIVE TRAP THIS AM). DR. QUAY SAID
THIS SPOT OUGHT TO HAVE ZAPUS BUT
NONE CAUGHT. MY RAT TRAPS, SET
AROUND & ON TOP OF 4 NEOTOMA NESTS
WERE NOT SPRUNG BUT STRING ON
ONE WAS GNAWED THRU. LAST NIGHT
WHILE SETTING TRAPS LIFTED 2 PIECES
OF 3X3 FT. CORRUGATED ROOFING METAL
IN WOODS & FOUND A LARGE EUMECES
OBSOLETUS (?) DIGGING IN A 10 INCH LONG
TRENCH — IT SEEMED TO HAVE BEEN
DIGGING IN, OR WANTING TO DIG IN TO THICK
GROUND. ABOUT 10 INCHES LONG OR MORE
GIVEN TO DR. QUAY WHO PICKED IT FOR
HIS OWN SPECIMEN COLLECTION. LEFT
ABOUT 6:15 AM. & CONTINUED W ON HIWAY
24.

A. C. ZIEGLER
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1 MI. N, 6 MI. E HILL CITY, (ON HIWAY 24), GRAHAM CO KANS.

JUNE 21 STOPPED HERE ABOUT 10:30 AM OR SO & LOOKED FOR FISH FOSSILS FOR 20-30 MINUTES. LAND IS MOSTLY GRAZED & WITH GRASS BUT IN SOME SPOTS SMALL HILLS & HILLOCKS OF LIMESTONE LAYERS APPEAR. WE WALKED OVER & FRAKTOUT. A FEW LAYERS 1 INCH OR SO IN THICKNESS. HILLOCKS ARE ABOUT 6 - 10 FT HIGH AND ARE WELL GROOVED. SAW MANY ARTIFACTS OF GYPSUM (?) CRYSTALS IN THE STONE. STONE SO SOFT IT COULD BE BROKEN WITH THE HANDS. SEVERAL INCH-LONG OYSTER-LIKE SHELLS SEEN IN ROCK & WEATHERED OUT. FOUND A FISH VERTEBRA A1,2 732 IN SOFTER SANDY SOIL BETWEEN LAYERS OF HARDER LIMESTONE. ALSO SPLIT SOME ROCKS & FOUND FISH SCALES (?) — LOOSE IN ROCK LEAVING A IMPRINT BUT COMING OUT WHOLE — LOOKED LIKE THIN BROWN HORN & VERY BRITTLE. THE GUYS FOUND SOME PARTS OF A VERTEBRAL COLUMN & PORTIONS OF FISH TAIL (VERY DARK BROWN COLORED). APPARENTLY SOME NICE FISH FOSSILS AT UNIV. KANS. HAD BEEN TAKEN FROM LOCALITIES SIMILAR TO THIS ONE. LOCALITY IS 7 MI. ENE (BY ROAD) HILL CITY ON U.S. HIWAY 24 800 FT. OR SO NORTH HIWAY. ALSO SOME SMALL "PLATES" OF IRON-BEARING ROCK SEEN IN LIMESTONE. THESE WERE RUST COLORED & WERE A LITTLE HARDER THAN MOST OF THE LIMESTONE.

A.C. ZIEGLER
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JOURNAL

AGATE CAMP GROUND T.48N, R.5E, GUNNISON Co., COLO.

JUNE 22 ARRIVED IN CAMP ABOUT 6:30 PM & SET OUT 67 MUS. SPEC'S & 6 RAT TRAPS ON N-FACING LODGEPOLE PINE & ROCK SLOPES; ON A ROCK & ARTEMESIA S-FACING SLOPE & ALONG EDGES OF A 3 FT. WIDE CREEK. GOT 8 PEROMYSCUS, 1 EUTAMIAS, 1 LAGURUS OL PHENACOMYS, & 11 MICROTUS. OF THESE DISCARDED 1 YOUNG & 1 DAMAGED ADULT PEROMYSCUS & 2 YOUNG MICROTUS. DR QUAY SET OUT LIVE TRAPS & GOT EUTAMIAS, CITELLUS LATERALIS, MICROTUS PEROMYSCUS & ♀ NEOTOMA CINEREA. THE QUAYS KEPT THE PREGNANT NEOTOMA AS A PET. THE LAGURUS(?) WAS TAKEN ON THE PINE & ROCK SLOPE, PEROMYSCUS TAKEN IN ALL 3 HABITATS. EUTAMIAS TAKEN AT 7:00 A.M. JUNE 22. MICROTUS MOSTLY ALL TAKEN IN GRASS & IN RIBES CLUMPS ALONG STREAM, SAW 1 8 IN. THICK ASPEN NEAR CREEK BUT UP HIGH 50-75 FT. CUT BY BEAVER. TRAPS SET ALONG VERY EDGE OF STREAM FOR WATER SHREWS BUT BAIT NOT TOUCHED & TRAPS FROZEN FROM SPRAY. COLD LAST NITE & THIS A.M. ICE ON DRINKING WATER. NICE CAMPGROUND NO FEE, 3 OR MORE PICNIC TABLES, 2 2-SEATER LATRINES. IS IN GUNNISON NATIONAL FOREST JUST ON S BORDER OF GUNNISON Co. BIRDS: ~~CANADA JAY~~(!) STELLAR JAY, JUNCO, CHICKADEE (? HEARD) SIGN OF DEER. ONLY A FEW MI. SW OF MONARCH CREST OR ~~SUMMIT~~. LEFT AT ABOUT 10:00 A.M.
2 PHOTOS TAKEN.

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JUNE 22 (CONT.) AGATE CAMPGROUND, T. 48 N, R. 5 E, GUNNISON CO., COLO.

HILL BACK OF CAMPGROUND. LOOKING SW. LINE OF TRAPS LED UP THIS RIDGE + DOWN OTHER SIDE (WHERE VEGETATION WAS SAGE + NO PINES) AND ALONG A CREEK BED. EUTAMIAS + CITELLUS LATERALIS WERE BOTH SEEN AROUND THE FIREPLACE IN FOREGROUND. PHOTO TAKEN 10 AM, JUNE 22, 1957 BY A. C. ZIEGLER

DR. + MRS. W. B. QUAY AT CAMPGROUND. DR. QUAY IS PREPARING "PICKLED" SPECIMENS. PHOTO TAKEN JUNE 22, 1957 BY A. C. ZIEGLER.

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4 MI. N, 4 MI. E HUNTINGTON, EMERY CO., UTAH

JUNE 22 + 23

DRIVING ACROSS UTAH NOTICED 2 OR 3 PRAIRIE DOGS IN FIELDS + POSSIBLY 2 MORE DEAD ON ROAD. AS YOU DRIVE ALONG 8-10 FT. IN DIA. CLEARED SPOTS ARE SEEN IN GRASS WITH A FOOT-HIGH CONICAL MOUND IN THE CENTER + ABOUT 1½ FT. IN DIA. THESE ARE APPARENTLY ANT HILLS SINCE NO LARGE OPENINGS ARE VISIBLE IN THEM + ALL PARTICLES ARE ABOUT BUCKSHOT OR B-B PELLET SIZE. SMALL CACTI ARE BLOOMING BRIGHT MAGENTA COLOR. STOPPED + DROVE OFF HIWAY 50 + 6 5½ MI. NE (BY ROAD) OF HUNTINGTON + SET 67 MUS SPEC'S + 6 RAT TRAPS AT 8:00 PM ALONG A DRY WASH (SEE 1 PHOTO) + THRU FIELDS WITH SOME SPINY GREY-GREEN SHRUB ABOUT 1 FT. HIGH. LEAVES ABOUT MOUSE-EAR SIZE. GROUND DUSTY BUT FAIRLY HARD WITH ROCKS + GRAVEL IN MANY PLACES. SAW NO VERY FRESH HOLES BUT DID SEE A FEW OLD HOLES 1½-2 IN IN DIA. WITH COBWEBS IN THEM. DIPO ??, RAN TRAPS ABOUT 9:00 P.M. + GOT 3 ADULT PEROMYSCUS (1 OF THEM WITH BADLY SHOT SKULL ~~BROKE~~ GIVEN TO DR. QUAY. THE QUAYS SAW SEVERAL FAST-FLYING SMALL BATS + A FEW LARGER SLOW FLYING ONES AT DUSK — THEY TOOK A FEW SHOTS BUT GOT NONE. NONE FLYING AT 4:00 AM JUNE 23. RAN TRAPS AT 5:00 A.M. + GOT ABOUT 8 OR 10 MORE PEROMYSCUS ALL LOOKING ALIKE. 4 OR 5 YOUNG ONES (ONLY 1 YOUNG ONE SAVED) PUT UP 2 ~~PEROMYSCUS~~ FROM LAST

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JUNE 22 & 23 (CONT.) 4 MI. N, 4 MI. E HUNTINGTON, EMERY CO., UTAH.

DRY WASH WHERE TRAPS WERE SET. LINE LED ALONG WASH FOR 50 YARDS THEN WENT CROSS-COUNTRY TO AND UP + OVER THE SMALL HILL IN FAR CENTER OF PHOTO, THEN DOWN OTHER SIDE OF HILL TO ANOTHER WASH + DOUBLED BACK TO END UP IN FAR LEFT SIDE OF PHOTO. OLD COYOTE TRAP FOUND ON BANK 5 YARDS FROM WASH IN CENTER OF PHOTO. PHOTO LOOKING NORTH. TAKEN JUNE 23, 1957 BY A.C. ZIEGLER.

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4 MI. N, ~~4~~ MI. E HUNTINGTON, EMERY CO, UTAH

JUNE 22 + 23 (CONT'D) NITE + 3 FROM THIS A.M. GAVE REST TO DR QUAY FOR PICKING AS THEY HAD BROKEN SKULLS, CHEWED FEET, EATEN OFF TAILS, ETC. — WHAT DID THE CHEWING I DON'T KNOW. DR QUAY WITH HIS LIVE TRAPS ON FLATS + ON ROCKY SLOPE + BUNNY GOT 4 ~~[illegible]~~ PEROMYSCUS + 1 NEOTOMA (NOBODY ADVAT? SPECIES?). FOUND AN OLD SPRING COYOTE TRAP HALF BURIED IN SAND + WENT ROSTERS-TOOK IT ALONG. LEFT ABOUT 7:30 AM. 2 JACK RABBITS SEEN DEAD IN ROAD A FEW MILES BEFORE WE GOT TO LAST NITE'S CAMPING SPOT NO WATER HERE BUT A SMALL RIVER A COUPLE OF MILES DOWN ROAD TOWARD HUNTINGTON.

~~[illegible]~~ 2.5 MI. S ELY, WHITE PINE CO, NEVADA

JUNE 24 BLEW OUT A RADIATOR 8 MI. FROM ELY SO CAMPED 1.5 MI. S BY ROAD OF ELY ON U.S. 6 + 50 + ABOUT 2 MI. SW OF HIWAY ON SMOOTH GRAVEL ROAD LEADING THRU SAGE + PINYON JUNIPER COUNTRY. SET OUT ABOUT 67 MUS. SPEC'S + 6 RAT TRAPS AT ABOUT 8:00 PM + GOT 51 PEROMYSCUS IN THEM AT 5:30 A.M. ONLY 1 IMMATURE TALLEN ALL REST AT LEAST SUB-ADULT. SET 4 GOPHER TRAPS IN FRESH WORKING SEEN IN THE FAIRLY HARD GRAVELLY SOIL BUT THEY WEREN'T SPRUNG. DR QUAY GOT MANY PEROMYSCUS, 2 PEROGNATHUS + 1 ONYCHOMYS IN HIS LIVE TRAPS, + A GOPHER IN GOPHER TRAP IN FRESH DIGGINGS. MY LINE WAS SET THRU SAGE. DOWN ROCKY + GRAVELLY

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2.5 MI. S ELY, WHITE PINE CO., NEVADA

JUNE 24
(CONT)

PART OF TRAPPING AREA LOOKING APPROX. NE ON AFTERNOON OF JUNE 23, 1957 FOREGROUND SHOWS SOME SAGE & GRASS AND BACKGROUND JUNIPERS. GOPHER BURROWS FOUND IN THIS TYPE OF GROUND WHERE SAGE WAS ~~N'T~~ TOO CLUMPED.

ELY IS JUST OUT OF PHOTO TO FAR LEFT. ROAD ON RIGHT OF PHOTO LEADS ALONG A FAIRLY DEEP ~~[illegible]~~ GULLY OR CANYON WHERE TRAPS WERE ALSO SET.

PHOTO TAKEN BY A.C. ZIEGLER

A.C. ZIEBLER
1957

JOURNAL

2.5 MI. SE ELY, WHITE PINE CO., NEVADA

JUNE 24 (CONT.) SLOPES, AMOUNG PINYONS WITH MANY FALLEN OPENED CONES. & AMONG ROCKY WASH WITH SAGE RIBES(?) & OTHER SMALL PLANTS. GOT THE PEROMYSCUS OVER WHOLE RANGE OF TRAPS, THO THE STRONG DRY SLOPE ~~WAS~~ HAD NOT AS MANY IN TRAPS AS OTHER LOCALITIES. SAW SEVERAL 2 INCH IN DIA HOLES IN GROUND WITH FRESH DIRT - MAYBE EUTAMIAS. MANY LITTLE SHALLOW HOLES DUG IN GROUND AROUND PINYON PINE BASES. FOUND SKELETON OF ANTLERLESS DEER BUT TEETH DISINTEGRATED SO DID NOT COLLECT IT. THE TOWN PEOPLE IN ELY SAID A WHILE BACK THIS YEAR (WHEN??) HAD 3 WEEKS OF RAIN SO THIS MAY EXPLAIN GREENESS OF EVERYTHING. SOME SNOW ON HI PEAKS NEARBY. OUR ELEVATION PROBABLY ABOUT 7000 FT. (ELY IS 6000 SOME ODD FT). GOPHER WORKING NOTICED ON HIGH GROUND IN 2 OR 3 BIG AREAS BUT ONLY 2 SERIES OF MOUNDS SHOWED FRESH DIRT SO PERHAPS NOT TOO MANY PRESENT. LEFT AT 8:15 AM TO GET RADIATOR FIXED IN ELY & GOT AWAY FROM THERE AT ABOUT 12:30 PM. JUNE 24. ~~WILL PROBABLY ARRIVE NOW~~ ~~START TO BERKELEY. CAMP. FROM HERE TO GET MRS. QUAY BACK TO WORK ON TIME.~~ SLEPT 5 HOURS IN 42-MILE CAMP GROUND NEAR LAKE TAHOE. NO READING. ARRIVED BERKELEY 12:30 P.M. JUNE 25, 1957.

A.C. ZIEGLER
1957 JOURNAL

MAPS OF TRIP
JUNE 13 — JUNE 25

"A" All-climate "RPM" 10-30 Special...the motor oil that can boost gas mileage up to 15% in tough stop-and-go driving, give easier starts, stepped-up power, even reduce oil consumption up to 33% in many cars.

"B" Best gasoline we've ever made...Chevron Supreme. It's tops for *all* top performance qualities your car needs for all-around driving...from the hot desert to the high country.

"C" The care we are ready to give your car...before a trip to be sure your car is in top travel condition, and while you are on the road.

Wherever you drive in the West *stop* at Chevron Gas Stations or Standard Stations for clean restrooms...tire and battery service...or a sparkling windshield.

Yes—Safe, Enjoyable Motoring is Easy as ABC, when you stop at a Standard Station or independent Chevron Gas Station.

KE BETTER CARE OF YOUR CAR

AREA 156,740 SQ. MI.

COUNTIES

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San Ardo.....K-5
*San Bernardino, †73,827.....N-10, O-8
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San Carlos, †16,881.....H-2, H-4, I-3
San Clemente, †4,435..O-10
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*Santa Rosa, 17,9
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Santa Ynez,
Santa Ysabel,
Santee,
San Ysidro, 2,38
Saratoga, 1,329,
Saticoy, 2,216,
Scottley,
Saugus,
Sausalito, 4,828
Schellville,
Scotia, 1,017,
Seal Beach, 3,55
Seaside, 10,226,
Sebastopol, 2,60
Seeley,
Selma, 5,964,
Shafter, 2,207,
Shandon, *350,
Shasta, *750,
Shaver Lake,
Sheepranch,
Shell Beach,
Sheridan,
Shingle Springs
Shoshone,
Sierra City,
Sierra Madre,
Sierraville,
Signal Hill, 4,04
Simi,
Simms,
Sloat,
Smartville,
Smith River, *7
Snelling,
Solana Beach,
Soledad, 2,441,
Solvang, *1,000,
Somesbar,
Sonoma, 2,015,
*Sonora, 2,448,
Soquel, *1,200,
Soulsbyville,
South Fork,
South Gate, 151,
South San Fran
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Springville, *52
Standard, *500,
Stanton, 1,762,
Stewarts Point,
Stinson Beach,
Stirling City, *7
*Stockton, 70,85
Stonyford,
Stratford,
Strathmore, *2,
Suisun City, 94
Summerland,
Summit City, *1,
Sunland, *1,500
Sunnyvale, 9,829,
Sunol, *750,
Sunset Beach,
*Susanville, 5,33
Sutter, *1,200,
Sutter Creek, 1,
Taft, 13,862,
Tahoe City,
Tecate,
Tehachapi, 1,68
Temecula,
Templeton, *94,
Tennant,
Termo,
Terra Bella,
Thermal, *500,
Thermalito,
Thornton,
Thousand Oaks,
Tipton, *1,200,
Tomales,
Topanga, *2,500
Torrance, †31,83
Tower House,
Tracy, 8,410,
Tranquillity,
Tres Pinos,
Trinidad, 188,
Trona, *2,000,
Truckee, 1,025,
Tujunga, *15,00
Tulare, 12,445,
Tulelake, 1,028,
Tuolumne, 1,284

Population figure preceded by † indicates SPECIAL CENSUS

CALIFORNIA MILEAGE CHART

	Alturas	Barstow	Bakersfield	Blythe	Brawley	Crescent City	Death Valley Nat'l Mon.	Eureka	Fresno	Las Vegas, Nev.	Los Angeles	Merced	Monterey	Needles	Oakland	Redding	Reno, Nev.	Sacramento	San Bernardino	San Diego	San Francisco	San Jose	San Luis Obispo	Santa Barbara	Santa Cruz	Santa Rosa	Sequoia Nat'l Pk
Bakersfield	592	129	•	337	311	658	263	572	108	286	111	163	226	282	284	447	412	280	156	240	292	255	129	153	261	343	11
Carson City, Nev.	215	387	382	600	574	475	341	409	275	439	445	219	295	538	215	253	30	133	425	559	223	221	393	503	253	231	36
Crescent City	298	789	658	995	969	•	816	86	551	896	771	495	492	940	379	222	445	382	820	898	371	418	602	708	450	315	63
Death Valley Nat'l Mon.	556	176	263	342	400	816	•	744	370	139	310	426	489	247	483	594	371	448	251	385	491	476	392	418	508	542	37
Eureka	301	703	572	909	883	86	744	•	465	830	685	409	406	854	293	156	379	296	734	812	285	332	516	622	364	229	55
Fresno	485	238	108	444	418	551	370	465	•	393	220	56	165	389	177	340	305	173	269	348	185	148	146	230	154	236	8
Grants Pass, Oreg.	210	764	633	970	944	88	766	174	526	846	746	470	530	915	412	186	395	353	795	873	420	456	640	746	488	403	61
Klamath Falls, Oreg.	102	704	591	917	891	196	658	282	484	738	704	428	488	846	370	144	287	311	742	831	378	414	598	704	446	386	57
Lassen Volcanic Nat'l Pk.	123	595	485	808	782	274	549	208	378	629	598	322	386	737	244	52	178	205	633	725	252	289	502	608	344	284	46
Los Angeles	660	134	111	224	198	771	310	685	220	289	•	276	352	285	397	560	475	393	58	122	405	368	207	95	374	456	22
Monterey	489	357	226	576	550	492	489	406	165	512	352	131	•	508	118	344	325	193	410	460	121	74	145	243	44	177	25
Oakland	371	415	284	621	595	379	483	293	177	570	397	121	118	566	•	225	221	82	446	524	8	44	228	334	76	64	26
Redding	145	578	447	784	758	222	594	156	340	692	560	284	344	729	225	•	223	167	609	687	233	270	454	560	302	242	42
Reno, Nev.	185	417	412	630	604	445	371	379	305	447	475	249	325	555	221	223	•	139	455	576	229	251	423	533	283	237	39
Sacramento	312	411	280	617	591	382	448	296	173	566	393	117	193	562	82	167	139	•	442	520	90	119	307	403	151	98	26
San Bernardino	640	75	156	172	145	820	251	734	269	230	58	325	410	226	446	609	455	442	•	110	454	417	265	159	423	505	27
San Diego	774	184	240	285	133	898	385	812	348	364	122	403	460	360	524	687	576	520	110	•	532	495	318	215	509	583	31
San Francisco	379	423	292	629	603	371	491	285	185	578	405	129	121	574	8	233	229	90	454	532	•	47	231	337	79	56	27
San Jose	415	386	255	592	566	418	476	151	139	543	368	107	[illegible]	[illegible]	44	[illegible]	[illegible]	119	417	495	47	•	254	290	57	101	3

BERKELEY 10:00 AM JUNE 13

FOR CONTINUATION OF MAP SEE OTHER SIDE

Del Norte Coast Redwoods State Park (1)

Here U.S. Highway No. 101 leaves ocean cliffs and enters a deep fern-carpeted forest of coast redwoods. Some of the most rugged of these trees stand near the road.

Klamath River (4)

The broad Klamath River, famed for steelhead fishing, is spanned near its mouth by the Douglas bridge. Along this stream are some of the finest stands of redwood trees.

Humboldt Coast (7)

Precipitous cliffs, sleepy lagoons and deep redwood forests offer ever-changing vistas to the traveler along the Humboldt County coast. At several points are State parks

California Redwood State Parks (10)

For 15 miles along U. S. Highway No. 101, several state parks preserve fine groves of coast redwoods. In Dyerville Flats is the 364-ft. Founders' Tree, the world's tallest

Mendocino Coast (13)

Russian Gulch State Park, pictured here, includes but a small part of the rugged coast of Mendocino County, which is followed many miles by State Highway No. 1

Sonoma Mission (16)

Last erected and most northerly in original chain of California missions. This and other historic buildings face the Sonoma Plaza where Bear Flag was raised, 1846

Muir Woods National Monument (19)

A grove of stately coast redwoods, favorite haunt of nature lovers, hikers; dedicated to John Muir, great California naturalist Trees up to 17 feet in diameter at base

Golden Gate Bridge (22)

At San Francisco are world's two greatest bridges: "Bay Bridge" excels in over-all length and depth of piers; Golden Gate Bridge in span length and tower height

Mount Shasta (2)

This extinct volcano, rising over 14,000 feet above sea level, is unrivalled in height within a radius of 300 miles. The surrounding area invites year-round recreation

Castle Crags State Park (5)

Among Northern California's scenic treats is the cluster of giant domes and spires towering above canyon of the Sacramento River. South of Dunsmuir, Highway No. 99.

Lassen Volcanic National Park (8)

Around Mt. Lassen, the most recently active volcano in the U. S., fresh mountain uplands contrast with boiling lakes and springs Here see area devastated in 1915 eruption

Shasta Dam (11)

Second largest dam in the world; 602 feet high, 3500 feet wide at crest; impounds Sacramento River for power, irrigation and flood control. Fine side-trip near Redding

Feather River Canyon (14)

For some 50 miles U.S. Alternate No. 40 traverses this scenic canyon, connecting lowlands and lovely mountain valleys of the "Feather River Country"—nimrods' heaven

Clear Lake (17)

Largest freshwater lake entirely within the boundaries of California. The popular resort area, which also includes neighboring Blue Lakes, is famed for outdoor sports

Sutter's Fort, Sacramento (20)

Founded in 1839 by John Sutter. Gold discovered at Coloma by James Marshall and brought here started famous Gold Rush of 1849. Fort is now a pioneer museum

Santa Cruz (23)

Sunning below heavily timbered mountains, Santa Cruz invites relaxation on its popular beach, deep sea fishing in the ocean beyond and varied amusements along its boardwalk

Lava Beds National Monument (3)

Nearly 100 square miles of lava beds, with winding caves containing never-melting ice a few feet below surface; stronghold of renegade Indians in Modoc War of 1872-73.

Burney Falls State Park (6)

A spectacular double fall 128 feet in height Giant springs feed Burney Creek above Many smaller falls come from springs in face of cliff over which the creek plunges

Donner State Historical Monument (9)

Near the eastern end of Donner Lake, this monument marks the location where the Donner party was snowbound during winter of 1846-47 Of 81 persons few survived

Lake Tahoe (12)

Its surface 6225 feet above the sea, this is the largest body of water on the continent at such an elevation. Famed for its beauty and accessibility; locale of many resorts

Calaveras Big Trees State Park (15)

Northernmost important grove of Sequoia Gigantea of the Sierra Nevada mountains These magnificent trees have more massive trunks than their taller coast cousins

Columbia Historic State Park (18)

One of best preserved "ghost towns" of the Gold Rush. Its population once estimated at more than 30,000, in 1950 it lost by only two votes of being California's capital

Yosemite National Park (21)

Domes and spires soar thousands of feet above the floor of Yosemite Valley; some of world's highest waterfalls plunge over its cliffs; 1180 square miles in the park

Devil Postpile National Monument (24)

Freaks among geological formations, these symmetrical shafts of basaltic rock have fallen from the face of a 60-foot high cliff and lie piled like fence posts below

ROAD MAP OF CALIFORNIA

MAXIMUM SPEED LAW-55 MILES PER HOUR

0 5 10 20 30 40

SCALE OF MILES—ONE INCH EQUALS APPROXIMATELY 21 MILES

Populations of Cities and Towns

- State Capital
- Communities
- Under 250
- 250 to 1,000
- 1,000 to 2,500
- 2,500 to 5,000
- 5,000 to 10,000
- 10,000 to 25,000
- 25,000 to 50,000
- 50,000 to 100,000
- 100,000 and over

Population symbols shown as, or enclosed by Indicate County Seats.

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Road Surfacing

	NUMBERED THRU ROUTES U.S.	NUMBERED THRU ROUTES STATE	OTHER STATE ROUTES	OTHER ROADS
SUPER-HIGHWAYS 4 or more lanes				
PAVED ROADS Concrete, Asphalt, Surface-treated				
IMPROVED ROADS Gravel Stone, Topsoil-Sandclay				
GRADED ROADS Drained and Maintained				
DIRT ROADS Unimproved				

Highway Markers

UNITED STATES 28 STATE 58 495

Mileages

MILEAGE BETWEEN TOWNS AND JUNCTIONS

TOTAL MILEAGE BETWEEN DOTS 35

Map Symbols

POINTS OF INTEREST

FISH HATCHERIES

AIRPORTS — Principal, Others

STATE PARKS — With Campsites, Without Campsites

TIME ZONE BOUNDARY

ILLUSTRATED POINTS OF INTEREST 2

Mountain Passes

Usually closed in Winter — Usually open in Winter

This map is drawn on a Polyconic Projection.

Many of the roads in these reservations are not always passable and inquiry should be made as to conditions before attempting a trip.
Travel across Canyon by foot, mule back or airplane only
GRAND CANYON NATIONAL PARK
KAIBAB NATIONAL FOREST
HUALPAI INDIAN RESERVATION
HOPI INDIAN RESERVATION
NAVAJO INDIAN RESERVATION
ZUNI INDIAN RESERVATION
APACHE INDIAN RESERVATION
SAN CARLOS INDIAN RESERVATION
PETRIFIED FOREST NATIONAL MONUMENT
Open during daylight hours only.
FLAGSTAFF, ARIZ. 327 Miles ALBUQUERQUE, N. MEX.
PHOENIX, ARIZ. 391 Miles LOS ANGELES, CALIF.
FLAGSTAFF ARIZ. 517 Miles LOS ANGELES, CALIF.
ARIZONA
NEW MEXICO
CONTINENTAL DIVIDE
Kingman
Oatman
Hilltop
Seligman
Williams
Flagstaff
Winslow
Holbrook
St. Johns
Concho
Show Low
Springerville
Gallup
Grants
Albuquerque
Belen
Socorro
Magdalena
Truth or Consequences
Silver City
Clifton
Morenci
Safford
Thatcher
Globe
Superior
Miami
Claypool
Hayden
Winkelman
Sonora
Ray
Florence
Coolidge
Casa Grande
Mesa
Chandler
Phoenix
Tolleson
Avondale
Buckeye
Wickenburg
Prescott
Jerome
Clarkdale
Cottonwood
Parker
Bouse
Vicksburg
Quartzsite
Yuma
Peoria
Scottsdale
Tempe
Gila Bend
Theba
Sentinel
Aguila
Salome
Wenden
Tonopah
Wintersburg
Hassayampa
Arlington
Palo Verde
Liberty
Cashion
Litchfield Park
Goodyear
Tiger Mill
Morristown
Wittmann
Beardsley
Kingman
Peach Springs
Valentine
Hackberry
Chloride
Dolce
Nelson
Hyde Park
Pierce Ferry
Temple Bar
Diamond Bar Ranch
Gold Basin
White Hills
Pigeon Mine
Miller Ranch
Music Mountain Mine
Mineral Park
Golconda
Cerbat
Walapai
Secret Pass
Mohave City
Yucca
Topock
Boriana
Copperville
Diamond Joe
Wikieup
Cane Sprs.
17 Mile Ranch
Bagdad
Mc Cracken Mine
Signal
Larned Landing
Rawhide
Lopez Ranch
Swansea
Poston
Cibola
Palm Canyon Spr.
Tonopah
Wintersburg
Hassayampa
Arlington
Palo Verde
Liberty
Cashion
Litchfield Park
Goodyear
Avondale
Tolleson
Glendale
Peoria
Scottsdale
Tempe
Mesa
Gilbert
Higley
Chandler
Queen Creek
Queen Creek Jct.
Superior
Miami
Claypool
Globe
Kelvin
Ray
Sacaton
Casa Grande
Coolidge
Florence
Randolph
Eloy
Sacaton
Maricopa
Stanfield
Casa Grande
Sentinel
Gila Bend
Theba
Aguila
Wenden
Salome
Tiger Mill
Morristown
Wittmann
Beardsley
Wickenburg
Vulture Mine
Bouse
Vicksburg
Quartzsite
Yuma
Parker

Gallup
Zuni
Grants
San Rafael
Acoma
Albuquerque
Bernalillo
Los Alamos
Santa Fe
Las Vegas
Pecos
Santo Domingo Pueblo
Española
Taos
Ranches of Taos
Tucumcari
Wagon Mound
Roy
Mosquero
Clayton
Santa Rosa
Vaughn
Fort Sumner
Clovis
Portales
Roswell
Carrizozo
Tularosa
Alamogordo
Artesia
Lovington
Hagerman
Tatum
Socorro
Magdalena
Belen
Mountainair
Willard
Moriarty
Estancia
Cuba
Jemez Springs
Jemez Pueblo
Cochiti
Pojoaque
Chimayo
Truchas
Cerrillos
Galisteo
Madrid
Golden
San Pedro
Stanley
Edgewood
Tijeras
Placitas
Algodones
Bernalillo
Alameda
Los Lunas
Peralta
Valencia
Tome
Adelino
Belen
Jarales
Bosque
Abeytas
Bernardo
Contreras
Lajoya
Polvadera
Lemitar
San Antonio
Valverde
Bingham
Carthage
Escondida
Socorro
Magdalena
Datil
Augustine
Luna
Reserve
Frisco Hot Springs
Apache Creek
Aragon
Rosedale
Dusty
Winston
Monticello
Chloride
Cuchillo
Hillsboro
Kingston
Hermosa
Truth or Consequences
Las Palomas
Caballo
Elephant Butte
Engle
Cutter
Aleman
Arrey
Hatch
Rincon
Vado
Dona Ana
Mesilla
Las Cruces
Anthony
Chaparral
Vado
Berrendo
Roswell
Dexter
Hagerman
Lake Arthur
Artesia
Hope
Lovington
Tatum
Portales
Clovis
Fort Sumner
Vaughn
Santa Rosa
Tucumcari
Las Vegas
Wagon Mound
Roy
Mosquero
Clayton
Taos
Ranches of Taos
Española
Los Alamos
Santa Fe
Pecos
Gallup
Zuni
Grants
San Rafael
Acoma
Albuquerque
Bernalillo
Socorro
Magdalena
Belen
Mountainair
Willard
Moriarty
Estancia
Tularosa
Alamogordo
Carrizozo
Roswell
Artesia
Lovington
Hagerman

SHELL

MAP OF ARIZONA NEW MEXICO

SHELL

SHELL

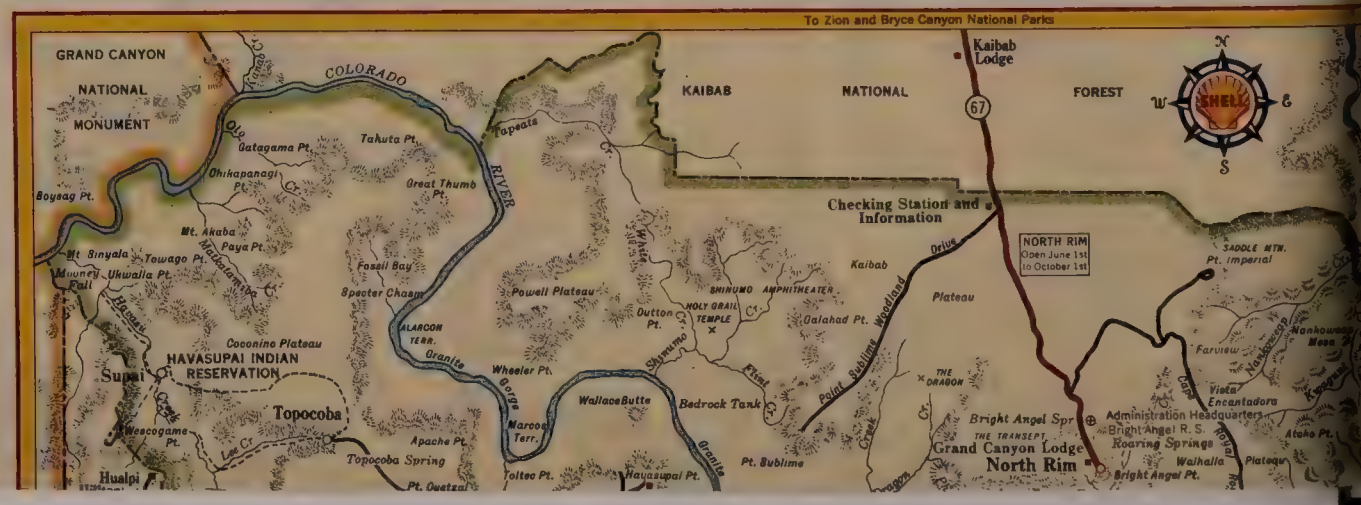
MAP OF

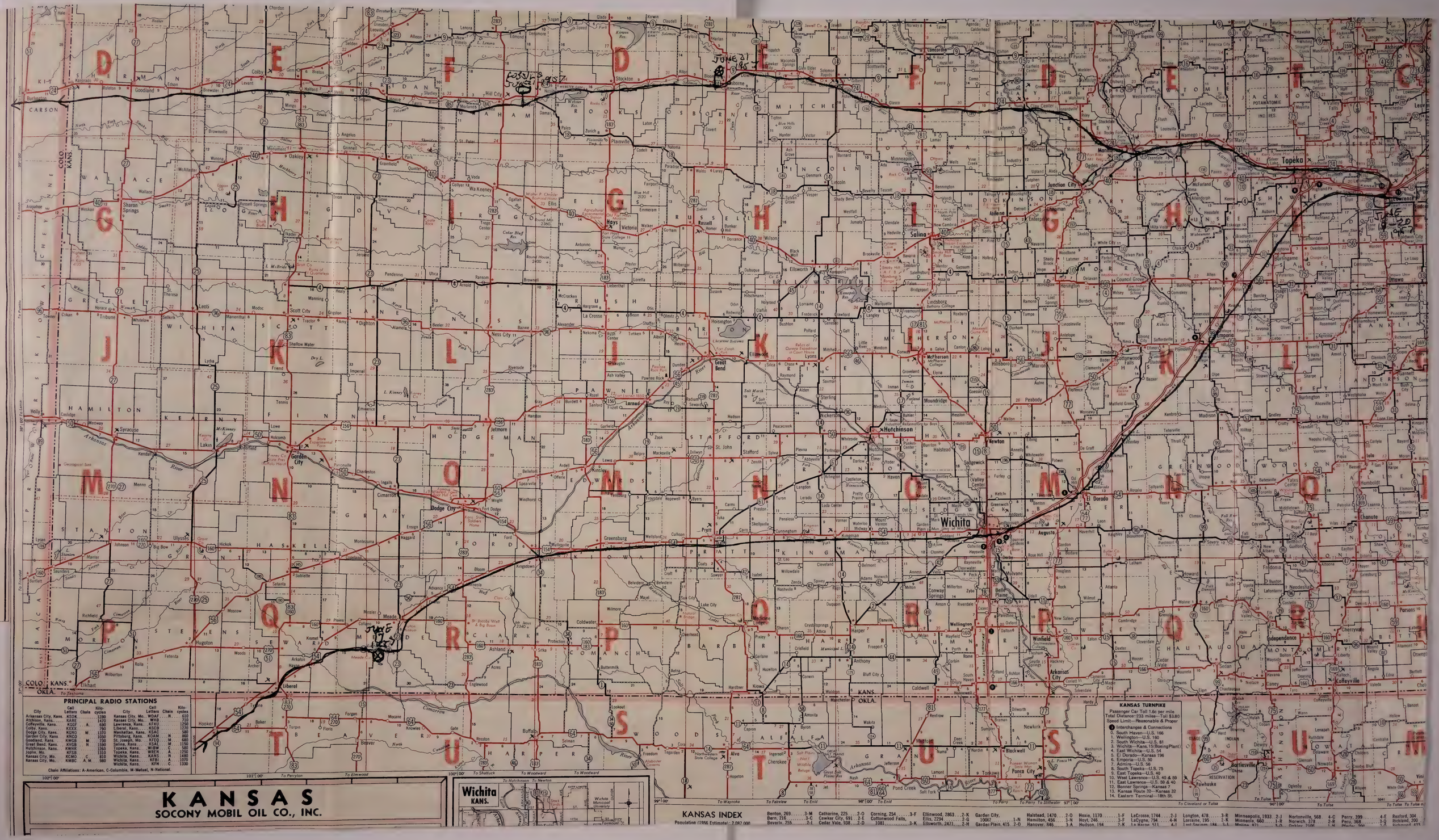
| | | |

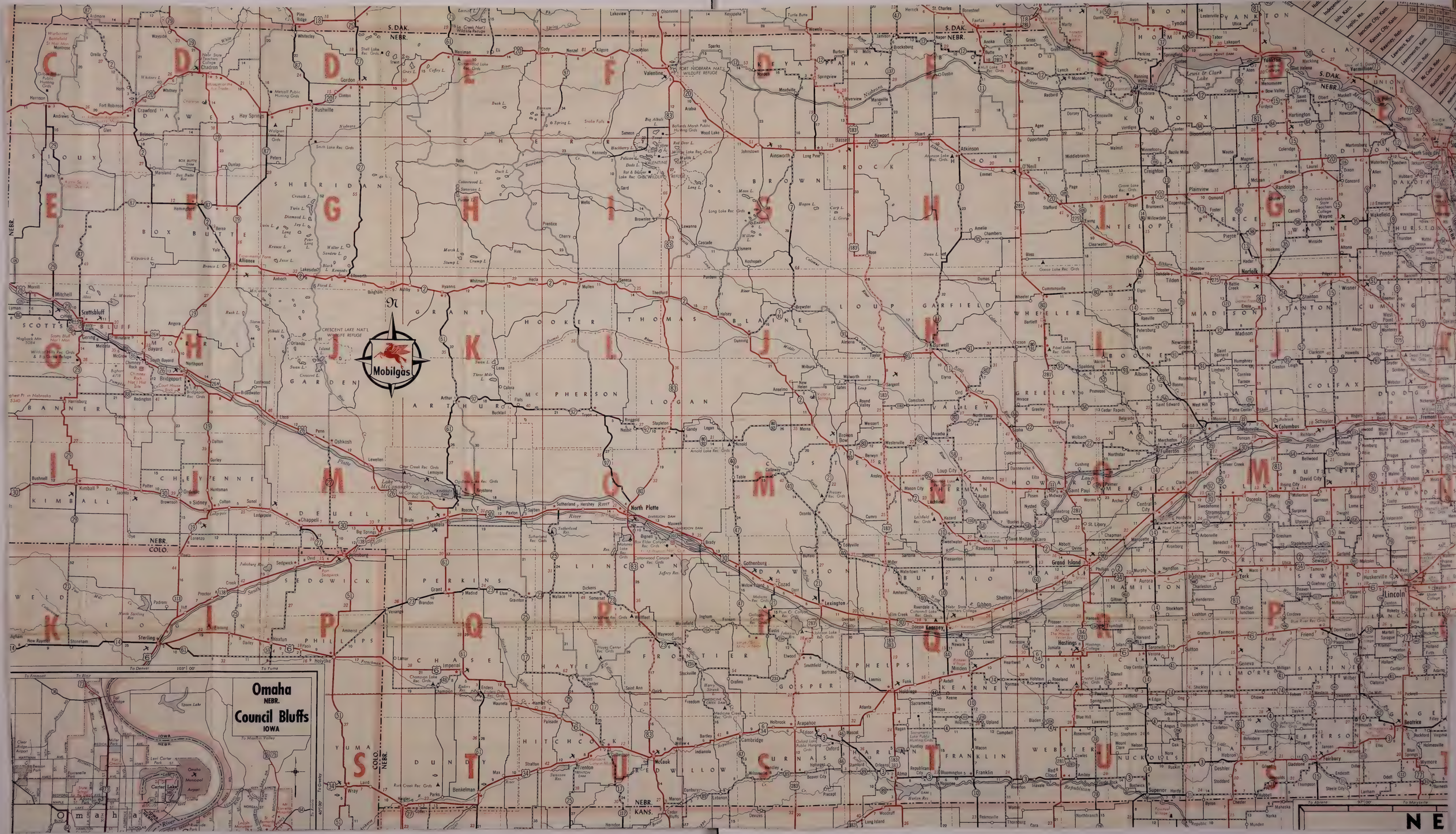
To White's City 7 Miles
Administration Building
Concession Bldg.
Office
Ticket Office
Entrance
BAT CAVE
Lower Parking Area
DEVIL'S DEN
MAIN CORRIDOR
GREEN LAKE ROOM
QUEEN'S CHAMBER
PAPOOSE ROOM
UNDERGROUND LUNCH ROOM
Elevators to Surface
Elevator Tower
East Upper Parking Area
Upper Parking Area
BIG
THE
ROOM
GRAND CANYON
CRYSTAL SPRING
CHINESE TEMPLE
TEMPLE OF THE SUN
FAIRYLAND
ONYX DRAPERIES
GIANT DOME
HALL OF THE GIANTS
SWORD OF DAMOCLES
TOTEM POLES
FROZEN CHRISTMAS TREE
ROOM IN FLOOR BOTTOMLESS PIT
MIRROR LAKE
JUMPING OFF PLACE
To El Paso 48 Miles
LEGEND
Cavern Trails
Explored Caverns
© The H.M.G. Co.
10-AA-411-S

To Holbrook, Winslow and Flagstaff
To Holbrook and Winslow
To St. Johns and Springerville
RIM OF PAINTED DESERT
PAINTED DESERT INN
PAINTED DESERT MUSEUM
Zuni Well
Lithodendron Wash
Dead River
PUERCO RIVER
NAVAJO COUNTY
APACHE COUNTY
Adamana
PUERCO RIVER CHECKING STATION
Parking Grounds, Indian Ruins
NEWSPAPER ROCK
BLUE FOREST
PARKING GROUNDS
Dry Creek
The Haystacks
Twin Buttes
FIRST FOREST
Agate Bridge (Natural)
PEDESTAL LOG
PETRIFIED FOREST
SECOND FOREST
NATIONAL MONUMENT
The Flattops
RAINBOW FOREST
PETROGLYPHS
CHECKING STATION
Administration Office
Rainbow Forest Museum
RAINBOW FOREST LODGE
THIRD FOREST
South Fork
Cottonwood Wash
MONUMENT BOUNDARY
CLOSED AT NIGHT
CARLSBAD CAVERNS HIGHWAY
PETRIFIED FOREST AND GRAND CANYON HIGHWAY
PETRIFIED FO
NATIONAL MON
ARIZONA
SCALE OF MILES
ONE INCH EQUALS APPROXIMATELY 4 MILES
LEGEND
Main Auto Roads
Other Roads
U.S. Highway Number
State Highway Number
10-AA-416-S
© The H.M.G. Co.

To Raton 174 Miles and Alamosa 143 Miles
To U.S. Route 84
SANTA FE
NEW MEXICO
POPULATION 27,998
National Cemetery
Rosario Cemetery
Cross of the Martyrs
GRIFFIN ST.
ROSARIO BLVD.
PASEO DE CUMBRES
BISHOPS LODGE RD.
HYDE PARK RD.
ARTIST RD.
CATRON ST.
MC KENZIE ST.
JOHNSON ST.
GRANT AVE.
MARCY ST.
LINCOLN AVE.
WASHINGTON AVE.
HILLSIDE AVE.
OTERO ST.
FEDERAL PL.
S. FEDERAL PL.
U.S. Ct. Hse.
State Art Museum
City Hall
Palace of the Governors
Ruins of Fort Marcy
SAN FRANCISCO ST.
ALAMEDA ST.
ALTO ST.
Santa Fe River
Santa Fe State Park
THE PLAZA
St. Vincent's


To Zion and Bryce Canyon National Parks
GRAND CANYON NATIONAL MONUMENT
KAIBAB NATIONAL FOREST
Kaibab Lodge
COLORADO RIVER
Tapeats Cr.
Gatagama Pt.
Tahuta Pt.
Chikapanagi Pt.
Great Thumb Pt.
Boysag Pt.
Mt. Akaba
Paya Pt.
Mt. Sinyala
Towago Pt.
Muuney Fall
Ukwalla Pt.
Fossil Bay
Specter Chasm
Powell Plateau
Coconino Plateau
HAVASUPAI INDIAN RESERVATION
Supai
Topocoba
Hualpi
Wescogame Pt.
Topocoba Spring
Pt. Quetzal
Apache Pt.
ALARCON TERR.
Wheeler Pt.
Marcos Terr.
Tolteo Pt.
Havasupai Pt.
WallaceButte
Bedrock Tank
Pt. Sublime
Dutton Pt.
HOLY GRAIL TEMPLE
SHINUMO AMPHITHEATER
Galahad Pt.
Checking Station and Information
NORTH RIM
Open June 1st to October 1st
Kaibab Plateau
THE DRAGON
Bright Angel Spr.
THE TRANSEPT
Grand Canyon Lodge
North Rim
Administration Headquarters
Bright Angel R. S.
Roaring Springs
Walhalla Plateau
Bright Angel Pt.
SADDLE MTN.
Pt. Imperial
Vista Encantadora
Atoko Pt.


KANSAS
SOCONY MOBIL OIL CO., INC.
PRINCIPAL RADIO STATIONS
City | Call Letters | Chain | Kilocycles
Arkansas City, Kans. KSOK 1280
Atchison, Kans. KARS A 1470
Coffeyville, Kans. KGGF A 690
Colby, Kans. KXXX 1270
Dodge City, Kans. KGNO M 1370
Garden City, Kans. KNCO 1050
Goodland, Kans. KWGB M 730
Great Bend, Kans. KVGB N 1590
Hutchinson, Kans. KWBW C 1260
Joplin, Mo. KFSB 1310
Kansas City, Mo. KCMO C 810
Kansas City, Mo. KMBC A, M, S 980
Kansas City, Mo. WDAF N 610
Kansas City, Mo. WHB 710
Lawrence, Kans. KFKU 1250
Liberal, Kans. KSCB 1270
Manhattan, Kans. KSAC 580
Pittsburg, Kans. KOAM N 860
St. Joseph, Mo. KFEQ M 680
Salina, Kans. KSAL M 1150
Topeka, Kans. WIBW C 580
Topeka, Kans. WREN A 1250
Wichita, Kans. KANS N 1480
Wichita, Kans. KFBI A 1070
Wichita, Kans. KFH C 1330
Chain Affiliations: A-American, C-Columbia, M-Mutual, N-National.
KANSAS TURNPIKE
Passenger Car Toll 1.6c per mile
Total Distance: 233 miles—Toll $3.80
Speed Limit—Reasonable & Proper
Interchanges & Locations
0. South Haven—U.S. 166
1. Wellington—U.S. 160
2. South Wichita—U.S. 81
3. Wichita—Kans. 15 (Boeing Plant)
4. East Wichita—U.S. 54
5. El Dorado—Kansas 196
6. Emporia—U.S. 50
7. Admire—U.S. 56
8. South Topeka—U.S. 75
9. East Topeka—U.S. 40
10. West Lawrence—U.S. 40 & 59
11. East Lawrence—U.S. 59 & 40
12. Bonner Springs—Kansas 7
13. Kansas Route 32—Kansas 32
14. Eastern Terminal—18th St.
Wichita KANS.
KANSAS INDEX
Population (1956 Estimate): 2,082,000
Benton, 269 3-M
Bern, 216 3-C
Beverly, 255 2-J
Catharine, 225 2-O
Cawker City, 691 2-E
Cedar Vale, 938 2-D
Corning, 254 3-F
Cottonwood Falls, 1081 3-K
Ellinwood, 2863 2-K
Ellis, 2294 2-G
Ellsworth, 2471 2-H
Garden City, 10063 1-N
Garden Plain, 415 2-O
Halstead, 1470 2-O
Hamilton, 456 3-N
Hanover, 845 3-A
Hoxie, 1170 1-F
Hoyt, 246 3-F
Hudson, 194 2-K
LaCrosse, 1744 2-J
LaCygne, 794 4-H
La Harpe, 511 4-J
Longton, 478 3-R
Lorraine, 195 2-K
Lost Springs, 124 3-J
Minneapolis, 1933 2-J
Minneola, 660 1-R
Moline, 871 1-D
Nortonville, 568 4-C
Norwich, 378 2-R
Oakley, 2106 1-M
Perry, 399 4-E
Peru, 368 3-Q
Plainville, 200 2-L
Rexford, 304
Richland, 200
Richmond, 433
Topeka
Lawrence
Kansas City
Junction City
Manhattan
Salina
Hutchinson
Wichita
Newton
El Dorado
Emporia
Winfield
Arkansas City
Coffeyville
Independence
Parsons
Iola
Chanute
Ottawa
Great Bend
Hays
Russell
Dodge City
Garden City
Liberal
Colby
Goodland
Atchison
Concordia
Belleville
Beloit
Clay Center
Abilene
McPherson
Ponca City
Bartlesville
Pawhuska
Blackwell
Caney
Cherryvale
Burlington
Yates Center
Humboldt
Eureka
Augusta
Wellington
Anthony
Kiowa
Medicine Lodge
Pratt
Ashland
Meade
Hugoton
Elkhart
Syracuse
Lakin
Tribune
Leoti
Scott City
Oakley
Colby
Goodland
Atchison
Lawrence
Topeka


Mobilgas
Omaha
NEBR.
Council Bluffs
IOWA
S. DAK.
NEBR.
COLO.
KANS.
Scottsbluff
Alliance
Chadron
Valentine
North Platte
Grand Island
Lincoln
Norfolk
Sterling
Holyoke
McCook
Benkelman
Hastings
Kearney
Columbus
Yankton
Beatrice
Fairbury
Fremont
Wayne
Wisner
Stanton
Madison
Neligh
Ainsworth
Atkinson
O'Neill
Bassett
Gordon
Rushville
Hemingford
Crawford
Chadron
Harrisburg
Bridgeport
Sidney
Imperial
Grant
Ogallala
Lexington
Gothenburg
Cozad
Ord
Broken Bow
Valley
Sargent
Comstock
Arcadia
Loup City
Ashton
Ravenna
Aurora
Hampton
Giltner
Shelton
Gibbon
Kearney
Minden
Holdrege
Alma
Superior
Franklin
Red Cloud
Superior
Hardy
Nelson
Superior
Superior
Superior

COLORAD
NEVADA-U
MIRACLE FOLD ROA

1957 Z. Gohler

E FOLD ROAD MAP
OLORADO
ADA-UTAH

ur Mobil Dealer
you about the advantages
a Mobil Credit Card

For Your Car

Special
Mobil Radiator Flush
Mobil Hydrotone
Special
Mobil Stop-Leak
ation
Mobilgloss plus Silicone
Mobil Lustre Cloth
Sovasuds Car Wash
ries
Mobil Upperlube
zone
Mobil Handy Oil

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MILEAGE CHART

5650

	Boulder	Colorado Springs	Denver	Durango	Estes Park	Grand Junction	Greeley	Pueblo	Trinidad
Alamosa	238	166	218	151	275	256	272	123	111
Boulder		94	27	358	37	266	55	137	223
Burlington	191	150	164	453	228	422	194	193	239
Canon City	139	45	112	258	176	249	166	39	125
Cheyenne, Wyo.	98	168	101	439	90	359	50	211	297
Colorado Springs	94		67	303	131	294	121	43	129
Craig	221	254	213	324	186	152	236	297	383
Denver	27	67		338	64	258	54	110	196
Durango	358	303	338		395	172	392	274	262
Estes Park	37	131	64	395		286	50	174	260
Ft. Collins	52	128	61	399	42	318	29	171	257
Ft. Morgan	87	146	79	417	101	337	51	189	252
Glenwood Springs	177	200	169	261	197	89	223	227	313
Grand Junction	266	294	258	172	286		312	288	367
Greeley	55	121	54	392	50	312		164	250
Gunnison	221	166	201	176	258	128	255	160	239
La Junta	202	108	175	299	239	353	219	65	80
Lamar	232	164	205	355	269	409	239	121	136
Leadville	121	129	113	256	153	177	167	156	242
Limon	114	73	87	381	151	345	121	116	168
Montrose	287	232	267	110	324	62	321	226	365
Pueblo	137	43	110	274	174	288	164		86
Salida	163	101	143	202	200	193	197	95	181
Sterling	132	180	124	462	146	382	96	223	275
Trinidad	223	129	196	262	260	367	250	86	
Walsenburg	186	92	159	225	223	330	213	49	37
Wray	174	206	166	509	188	424	138	249	295

COLORADO INDEX

Population (1956 Estimate): 1,580,000
Area: 104,247 sq. miles Capital: Denver

CITIES & TOWNS

1950 Census or latest estimate

Adams City, 800 ..... 3-G
Agate, 150 ..... 3-K
Aguilar, 1038 ..... 3-S
Akron, 1605 ..... 3-F
Alamosa, 5354 ..... 2-U
Alienspark, 40 ..... 2-F
Allison, 125 ..... 2-V
Alma, 149 ..... 2-K
Amherst, 106 ..... 4-B
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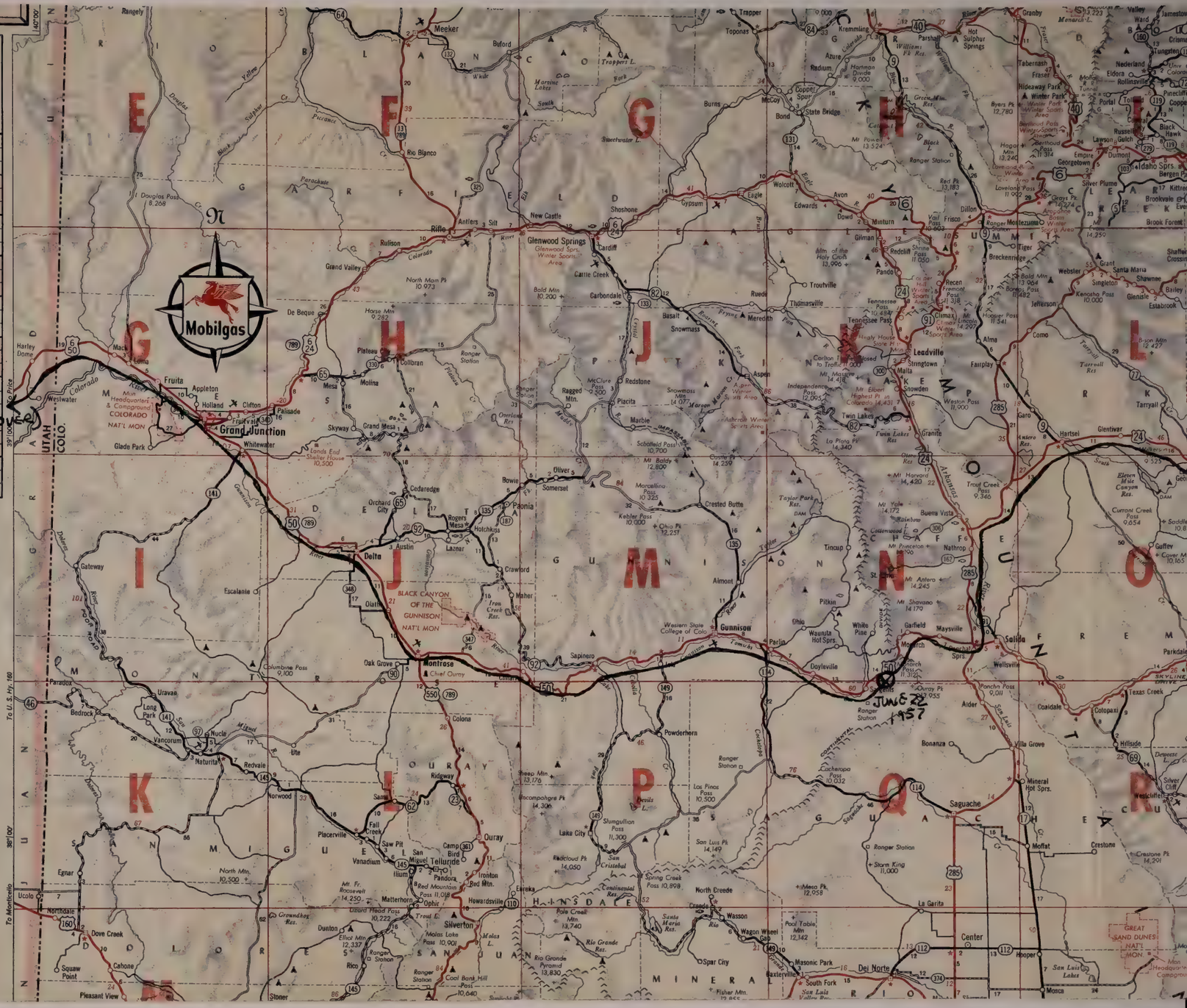
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Dolores
Cortez
Dove Creek
Hotchkiss
Paonia
Crested Butte
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Fairplay
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Boulder
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Fort Collins
Greeley
Fort Morgan
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Burlington
Limon
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Holyoke
Julesburg
Ft. Lupton
Longmont
Lyons
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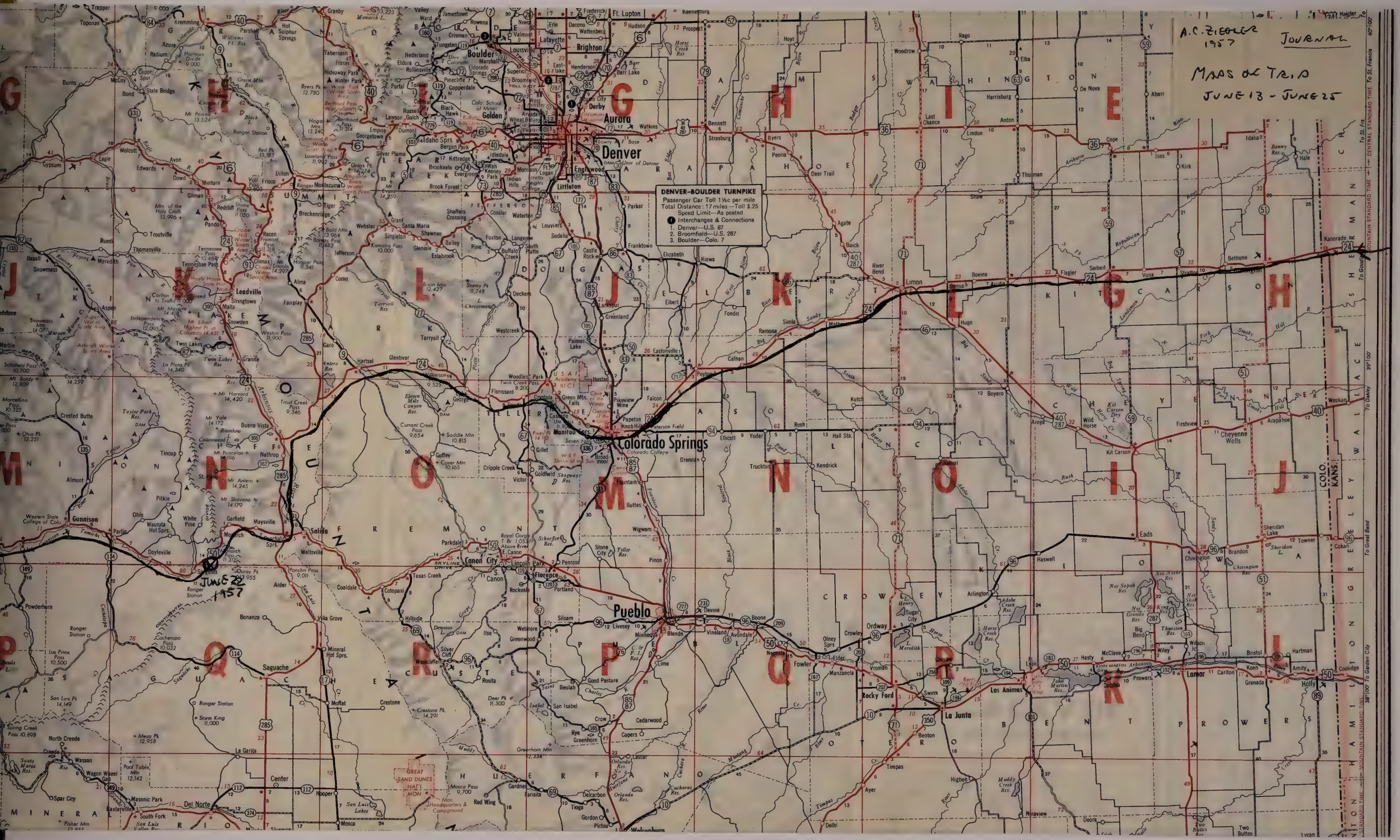
Dillon
Vail


A.C. ZIEGLER
1957
JOURNAL
MAPS OF TRIP
JUNE 13 - JUNE 25
DENVER–BOULDER TURNPIKE
Passenger Car Toll 1½c per mile
Total Distance: 17 miles—Toll $.25
Speed Limit—As posted
Interchanges & Connections
1. Denver—U.S. 87
2. Broomfield—U.S. 287
3. Boulder—Colo. 7
Denver
Aurora
Boulder
Colorado Springs
Pueblo
Leadville
Gunnison
Salida
Canon City
Florence
La Junta
Lamar
Rocky Ford
Las Animas
Limon
Kit Carson
Cheyenne Wells
Holly
Granada
Eads
Haswell
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Arlington
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Calhan
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Watkins
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Fort Lupton
Frederick
Longmont
Lafayette
Louisville
Superior
Broomfield
Westminster
Arvada
Wheat Ridge
Golden
Idaho Springs
Georgetown
Empire
Granby
Hot Sulphur Springs
Kremmling
Dillon
Frisco
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Leadville
Aspen
Glenwood Springs
Rifle
Grand Junction
Montrose
Ouray
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Alamosa
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Saguache
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Walsenburg
Lamar
Holly
Sterling
Fort Morgan
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Parker
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Palmer Lake
Monument
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Cripple Creek
Victor
Florissant
Hartsel
Fairplay
Alma
Breckenridge
Frisco
Dillon
Minturn
Eagle
Gypsum
Edwards
Avon
Vail
Leadville
Malta
Stringtown
Granite
Twin Lakes
Buena Vista
Salida
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Monarch
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Garfield
Nathrop
Gunnison
Parlin
Doyleville
Powderhorn
Bonanza
Villa Grove
Saguache
Moffat
Crestone
Hooper
Mosca
Del Norte
Center
La Garita
Creede
Wagon Wheel Gap
Masonic Park
South Fork
Baxterville
Spar City
Wasson
North Creede
Almont
Pitkin
Ohio
Tincup
Crested Butte
Taylor Park
Marble
Basalt
Meredith
Thomasville
Troutville
Rifle
Silverton
Durango
Pagosa Springs
Ignacio
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Population (1956 Estimate): 790,000

Area: 84,916 sq. miles — Capital: Salt Lake City

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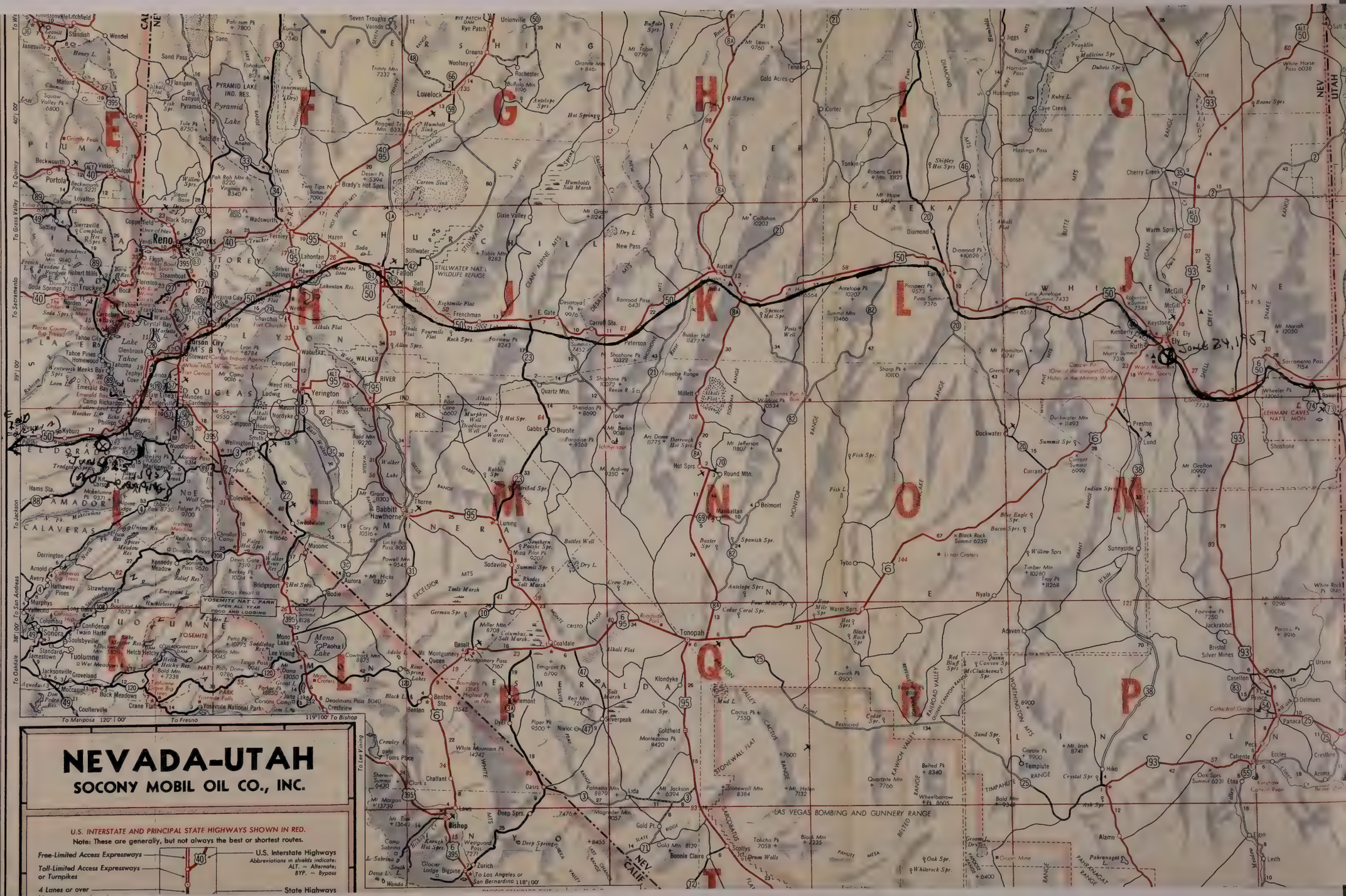
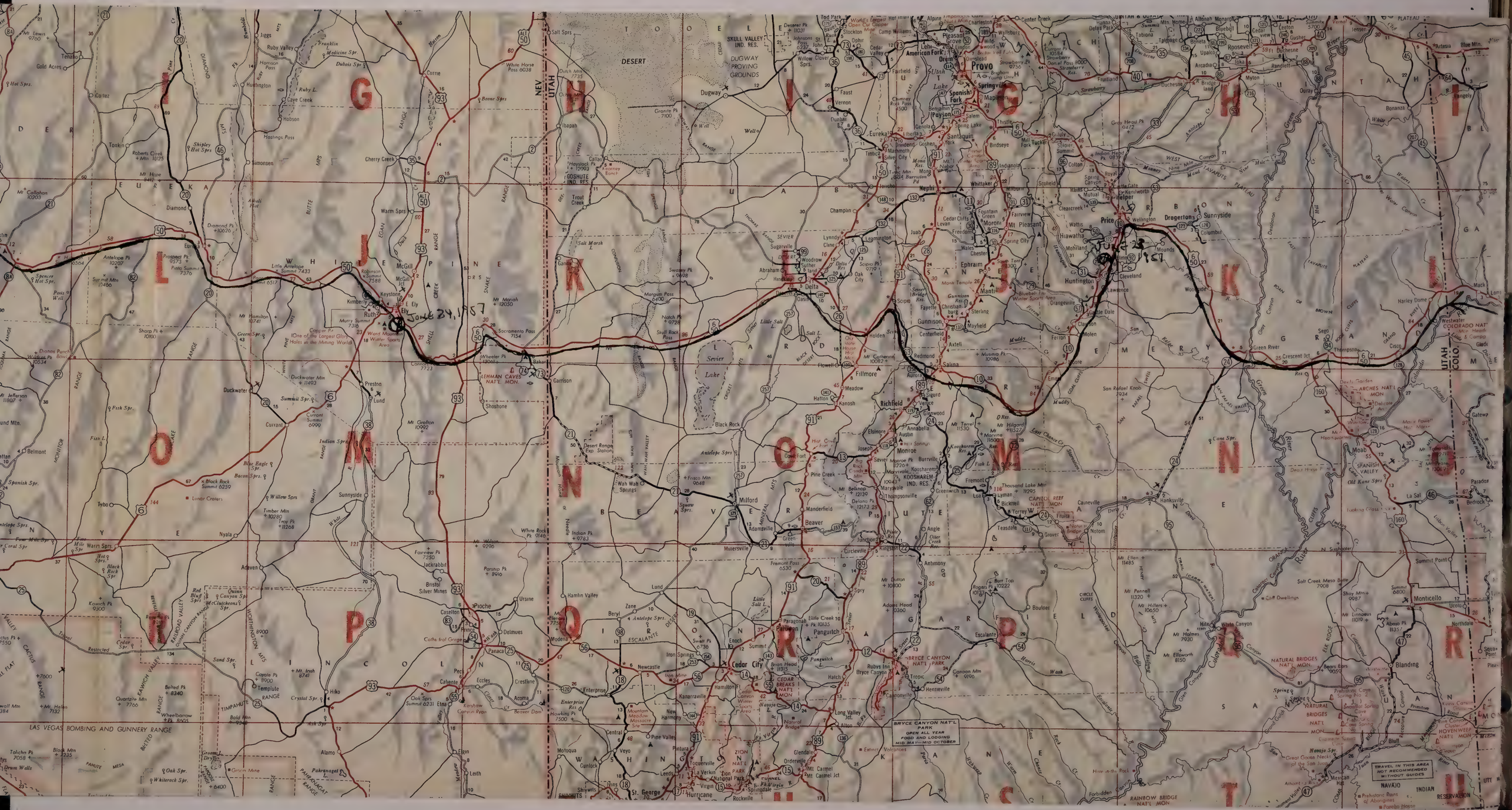
Kanarraville, 263 ....7-R
Kanosh, 476 ....7-O
Kaysville, 1898 ....8-D
Keetley, 60 ....8-D
Kenilworth, 933 ....8-K
Kimball Jct. 8-D
Kingston, 138 ....7-O
Knolls, 10 ....7-E
Koosharem, 300 ....8-M
Lake Point Jct. 7-F
Lakeside, 6 ....7-F
Laketown, 217 ....8-A
Lapoint, 25 ....8-H
Lark, 383 ....7-I
La Sal, 200 ....8-O
La Verkin, 387 ....7-U
Lawrence 8-J
Layton, 3846 ....8-D
Leamington, 214 ....7-L
Leeds, 150 ....7-T
Leeton 8-H
Lehi, 3627 ....8-D
Levan, 521 ....8-J
Lewiston, 1533 ....8-A
Liberty 8-A
Lindon, 801 ....8-G
Linwood, 30 ....8-E
Loa, 437 ....8-M
Logan, 16832 ....8-A
Long Valley Jct 7-R
Lucin, 75 ....7-B
Lund, 50 ....7-Q
Lyman, 255 ....8-M
Lynn 7-B
Lyndyl, 241 ....7-L
Maeser, 643 ....8-E
Magna, 3502 ....7-F
Mammoth, 100 ....7-L
Manderfield, 100 ....7-O
Orangeville, 589 ....8-J
Orderville, 371 ....7-U
Orem, 6351 ....8-G
Ouray, 60 ....8-H
Panguitch, 1501 ....7-R
Paradise, 401 ....8-A
Paragonah, 404 ....7-R
Park Valley, 25 ....7-B
Parowan, 1455 ....7-R
Payson 3998 ....8-G
Penrose, 175 ....8-C
Peoa, 203 ....8-D
Perry, 449 ....8-A
Pickleville, 9 ....8-K
Pine Creek 7-O
Pine Valley 7-T
Pineview 8-D
Pine View Res. 8-A
Pintura, 5 ....7-U
Plain City, 829 ....7-F
Pleasant Grove, 3195 ....8-G
Pleasant View, 420 ....7-C
Plymouth, 228 ....7-C
Portage, 254 ....7-C
Portersville 8-D
Price, 6010 ....8-J
Promontory 7-C
Providence, 1055 ....8-A
Provo, 14000 ....8-G
Rains, 13 ....8-J
Randlett, 10 ....8-H
Randolph, 562 ....8-A
Redmond, 600 ....8-J
Richfield, 4112 ....8-M
Richmond, 1091 ....8-A
Richville 8-D
Riverside, 150 ....7-C
Rockville, 142 ....7-U
Roosevelt, 1628 ....8-H
Rosette 7-B
Roy, 3723 ....7-F
Rubys Inn, 50 ....7-R
St. George, 4562 ....7-T
St. John, 80 ....7-I
Salem, 781 ....8-G
Salina, 1789 ....8-J
Saltair, 60 ....7-F
Salt Lake City, 207000 ....8-D
Salt Sprs 7-H
Sandy, 2095 ....8-D
Santa Clara, 319 ....7-T
Santaquin, 1214 ....8-G
Scipio, 491 ....8-J
Scofield, 236 ....8-G
Sego, 20 ....8-K
Sevier, 10 ....7-O
Shivwits, 40 ....7-T
Sigurd, 431 ....8-M
Silver City, 16 ....7-I
Smithfield, 2383 ....8-A
Snowville, 159 ....7-C
Snyderville, 25 ....8-D
Soldier Summit, 93 ....8-G
S. Jordan, 1048 ....8-D
S. Ogden, 3763 ....8-D
S. Salt Lake, 7704 ....8-D
Spanish Fork, 5230 ....8-G
Spring Canyon, 250 ....8-G
Spring City, 703 ....8-J
Springdale, 300 ....7-U
Spring Lake 8-G
Springville, 6475 ....8-G
Spry, 25 ....7-R
Standrod, 35 ....7-B
Sterling, 188 ....8-J
Stockton, 414 ....7-I
Summit, 150 ....7-R
Summit Point 8-R
Sunnyside, 1881 ....8-K
Sutherland 7-L
Syracuse, 837 ....7-F




June 24, 1957
June 28 1957
SKULL VALLEY IND. RES.
DUGWAY PROVING GROUNDS
DESERT
GOSHUTE IND. RES.
LEHMAN CAVES NAT'L MON.
Sevier Lake
Provo
Price
Richfield
Cedar City
Milford
Monticello
Moab
Blanding
Kanab
St. George
Hurricane
Zion National Park
Bryce Canyon Nat'l Park
Cedar Breaks Nat'l Mon
Arches Nat'l Mon
Natural Bridges Nat'l Mon
Hovenweep Nat'l Mon
Capitol Reef Nat'l Mon
Kaiparowits Plateau
Navajo Indian Reservation
Rainbow Bridge Nat'l Mon
Colorado River
Green River
Las Vegas Bombing and Gunnery Range
Bryce Canyon Nat'l Park
Open all year
Food and lodging
Mid May—Mid October
Travel in this area not recommended without guides
Utah
Colo.
Nev.
Ariz.

A. C. ZIEGLER
1957

JOURNAL

1 MI. SE INVERNESS, MARIN CO., CALIFORNIA.

JUNE 30. DR. BENSON REACHED UNDER THE ROOFING USED TO SIDE HIS CABIN AT INVERNESS & PULLED OUT 3 MYOTIS CALIFORNICUS AT ABOUT 6:00 P.M. I TOOK 1 TO SKIN FOR MY OWN COLLECTION - REST RELEASED, WT ON JUNE 31, 9:00AM. ACC. # 774. DROVE TO KEHOES BEACH OUT ON THE POINT. SAW 3 YOUNG DEAR BESIDE ROAD. FRESH DIGGINGS OF MOLE OR GOPHER SEEN NEAR BEACH ON GRASSY ~~[illegible]~~ HILLS WITH SANDY SOIL. FOUND A MORE OR LESS COMPLETE SKELETON OF A LONG-DEAD EUMETOPIAS JUBATA (~~[illegible]~~ THIS SPECIES ACC. TO DR. BENSON WHO SAID ALSO IT WAS A YOUNG INDIVIDUAL). WOULD HAVE SAVED IT BUT LOWER JAW & UPPER MANDIBLE APPARENTLY LOST SOME TIME BACK. SINCE REMAINS OF MAXILLA & NASALS WORN SMOOTH FROM CONTACT WITH SAND. BIRDS ON KEHOES BEACH: HEERMANNS GULL (20±), BROWN PELICAN (8±), COROMORANT (SP?)(3±). BIRDS: NEAR INVERNESS - CAN QUAIL (1), RUSSET-BACKED THRUSH (2-SINGING), GOLDFINCH (5±), SPOTTED TOWHEE (5±), MARSH HAWK (2), TURKEY VULTURE (2), SONG SPARROW (1 - DR BENSON), DOWNY WOODPECKER (1), BANK SWALLOWS (4±).

BERKELEY, (2116 ALLSTON WAY), ALAMEDA CO., CALIFORNIA

JULY 5 PUT UP FOR MVZ A TRADESCANTIA MEXICANA (CANAL) & DONATED BY MISS SUSAN E. CHATTIN WHO WAS SECRETARY AT MVZ FOR A NUMBER OF YEARS A WHILE BACK. SHE GOT BAT IN RED CROSS BUILDING WHERE SHE APPARENTLY WORKS NOW. SAID IT WAS QUITE ACTIVE & FLYING AROUND THE OFFICES. CAUGHT APPARENTLY ABOUT 4:00 P.M. TODAY. MVZ # 121689

A.C. Ziegler
1957

JOURNAL

UNIVERSITY OF CALIFORNIA, BERKELEY, ALAMEDA Co., CALIF.

KILLED JULY 10 1957

PUT UP 11 ~~LABORATORY~~ WHITE MICE FOR MUZ (A.C.Z. # 775-785). THESE ARE KNOWN AS LOPT + DYED, BLACK IN 1955 BY DR. BENSON TO FOLLOW MOLT SEQUENCE. TABS ON CAGES HAVE NUMBERS REFERING TO DR. BENSONS OWN NOTES OR INFORMATION. ANIMALS WERE APPARENTLY BORN "6/1" (1955?) FROM TABS ON CAGES. THERE WERE ORIGINALLY 9 IN ONE CAGE, 10 IN ANOTHER, ALL ♀♀. WHEN THEY WERE KILLED THIS DATE THERE WERE 5 IN ONE CAGE, 6 IN OTHER — I THINK HAD LOST EAR TABS. CAGE TAB SAYS

"DYED JULY 18, 1955"	(REVERSE)
B ALB C PROD. CAGE BORN 6/1 10 ♀♀ (OTHER SAYS 9 ♀ - 1 DIED ♀♀)	BORN HARKNESS BENSON 621

ESSENTIAL INFO. THEN: BORN JUNE 1, 1955
DYED JULY 18, 1955
KILLED JULY 10, 1957

AGE: 2 YEARS, 10 ± DAYS.

ONLY BLACK HAIRS PRESENT NOW ARE IN INSIDE OF CASES.

LOWER LAKE (JADO'S RESORT), LAKE Co., CALIFORNIA

KILLED JULY 23

PUT UP TWO EPTESICUS FOR MUZ BROT. IN BY MR. PAUL F. COVENE OF OAKLAND PARK DEPT. WHO WAS GIVEN THEM BY BOBBY RYAN OF THE RYAN FAMILY WHO IN TURN RECEIVED THEM FROM MR JADO WHO GOT THEM "IN A LOT" OF ONE OF

A.C. ZIEGLER
1957

JOURNAL

LOWER LAKE (JAGO'S RESORT), LAKE CO., CALIF.

KILLED JULY 23 HIS 9 CABINS IN, OR NEAR, THE TOWN OF LOWER LAKE. ORIGINALLY A NUMBER OF BATS WERE INVOLVED — MR COVEN + PARK DEPT. KEPT A COUPLE ~~OF~~ 2 SO + HE SAID ANOTHER PERSON HAD 2. ALSO SOME WENT TO DR ORR (AT CALIF. ACAD. SCI ??) FROM MR. COVEN. MVZ ONLY GOT TWO HOWEVER — ACCN 9373 MVZ # 121830, 121831. MR. COVEN'S PHONE IS TE. 2-3600, EXT. 598.

1 MI. E APTOS, 150± FT., SANTA CRUZ CO., CALIF.

DIED JULY 24, 1957 PUT UP 8TH + LAST MEMBER OF LITTER OF YOUNG BORN TO EUTAMIAS CAUGHT IN MARCH OF 1957 BY DANIEL C WILHOFT OF MVZ. SEE MAY 13, 1957 THIS JOURNAL FOR INFO. ONE PARENT + REST OF LITTER, MVZ # 121832.

END JOURNAL ON THIS STYLE PAPER. FROM THIS DATE ALL OTHER JOURNAL IS ON MUSEUM-SIZE PAPER + FILES IN M.V.Z. DITTO FOR CATALOG + SPECIES ACCOUNTS.

A.C. ZIEGLER
1957

SOREX ORNATUS

Ziegler, A.C.
Jan.-July, 1957
Species Accounts
Mammals

A.C. ZIEGLER
1957

SOREX ORNATUS

2.5 MI. E ORINDA, 500± FT., CONTRA COSTA CO., CALIFORNIA

MAR 12+18 MIKE MARSH BROT IN 1 ON OPEN SITE FOR ZOO. DEPT COLL. BOTH OF ONE IN GOOD BREEDING CONDITION, TAKEN IN LIVE TRAPS ON HIS STUDY AREA. WHICH ALSO HAS MICROTUS CALIFORNICUS + REITHRODONTOMYS MEGALOTIS.

1.0 MI. N, 2.0 MI. E MARTINEZ (SALT MARSH), CONTRA COSTA CO., CALIF.

FEB 17 CAUGHT 2 IN MARSH NEAR EDGE OF SHORT-GRASSED FIELD. MUCH OF MARSH IN SALICORNIA BUT THIS SMALL TRAPPING LOCALITY MOSTLY IN A MOWED-DOWN GRASSY AREA. ALSO TOOK SEVERAL MICROTUS + ABOUT 18 REITHRO. RAVIVENTRIS (OR ZACTHEM R. MEGALOTIS?)

A.C. ZIEBLER
1957

SOREX VAGRANS

.7 MI. N, 2.3 MI. E MARTINEZ (SAN PABLO MARSH), CONTRA COSTA CO, CALIF.

FEB 15-17 TOTAL OF TAKEN BY CHAS ZIEBLER ALONE WITH RETHEO. RAVIVENTRIS, MICROTUS & MUS. SEE THIS JOURNAL THIS DATE FOR #'S & DATES. 90 MUS. SPEC'S RUN FOR 4 A.M.'S, JUST RESET EACH DAY.

1.0 MI. N, 2.0 MI. E MARTINEZ, " " " " " " "

FEB 17 2 TAKEN IN 100 MUS. SPEC'S SET AT EXTREME WEDGE OF MARSH. HABITAT MUCH LIKE REST OF MARSH BUT RIGHT NEXT TO GRAZED HILLS (WITH VERY SHORT GRASS & BRECHARIS) MORE MATTED DRY GRASS IN THIS AREA THAN IN FEB 15TH - 17TH AREA. TO MVZ. ALSO CAUGHT IN SAME TRAP LINE RETHEOS, MICROTUS & MUS

A. C. ZIEGLER
1957

NEUROTRICHUS GIBBSI HYPOLINTHUS

FOUND DEAD APR. 22 S SIDE RUSSIAN RIVER JUST S DUNCAN MILLS (T7N, R11W), SONOMA CO., CALIF.

BILL HAMILTON BROT IN I FOUND DEAD "ON COW TRAIL". SKIN ON SKULL TORN, SKULL BROKEN & ABDOMEN OPEN – NOT COMPLETELY DRIED-UP TOO SO FAIRLY RECENT. SMALL MAGGOTS ON IT. INTESTINES + SEX ORGANS HAD BEEN MOSTLY EATEN OUT THRU 2 SMALL HOLES IN SIDE. SO COULD NOT BE SEXED. SAVED AS (BROKEN) SKULL ONLY, A.C.Z #626

A.C. ZIEGLER
1957

MACROTUS CALIFORNICUS

MOUNTAINEER MINE, T. , R. , RIVERSIDE CO, CALIFORNIA

JUNE 14 GOT 5 MUMMIES FROM MINE FLOOR + SAW SEVERAL OTHERS. ALSO SAW 2 LIVE BATS MAYBE ALSO THIS SPECIES. 1 MYOTIS(?) MUMMY FOUND ON STRAND OF MANILA TWISTED WIRE IN SAME CAVE. BATS ROOSTED AT LEAST ON TOP LEVEL + PERHAPS ON ALL THE 5 OR SO OTHER LEVELS BUT ONLY PART OF 1 (MACROTUS?) MUMMY FOUND ON MAIN LEVEL - 5 AT LEAST DOWN SHAFT ON SECOND LEVEL.

A.C. ZIEBER
1957

MYOTIS CALIFORNICUS

1 MI. SE INVERNESS, MARIN CO., CALIFORNIA

JUNE 30 DR. BENSON PULLED 3 OUT FROM UNDER ASPHALT ROOFING STRIPS USED TO SIDE HIS CABIN ~~NEAR~~ INVERNESS. I SAVED FOR MY OWN COLLECTION — REST RELEASED. DR. BENSON SAID THIS (?) SPECIES OF BAT OFTEN ROOSTED UNDER THESE ROOFING PIECES & HE HAD BANDED SOME BEFORE — THESE WERE UNBANDED TWO. THERE W~~ERE~~ DARK BROWN & LIGHTER REDDISH BROWN COLOR PHASES IN THESE 3 BUT I'M AFRAID I DON'T REMEMBER WHICH WAS WHICH NOW ~~OR~~ WHETHER MY SPECIMEN WAS LITE OR DARK PHASE. DR BENSON SEEMED TO THINK COLOR DIFFERENCES WERE CORRELATED WITH AGE DIFF'S — ONE OF BABS BEING YOUNG OF THE YEAR. WHEN RELEASED THESE BABS FLEW OF RATHER SLOWLY INTO WOODS.

A.C. Zeiner
1957

EPTESICUS FUSCUS

LOWER LAKE (JAGO'S RESORT), LAKE CO., CALIF.

VILLOD JULY 23. GOT 2 ♀♀ FROM MR P.F. COVEN 1 ADULT + OTHER SMALLER. MR. COVEN SAID ONE OF GROUP FROM WHICH THESE CAME HAD A YOUNG ONE STILL CLINGING TO MOTHER BAT — THIS YOUNG ONE BECAME DETACHED + WAS GIVEN (WITH OTHER BATS) TO DR ORR (AT CALIF. ACAD. SCI ??). THE GROUP OF BATS WAS TAKEN IN LOFT OF ONE OF MR. JAGO'S CABINS BY MR. JAGO. M.V.Z. GOT ONLY 2 EPTESICUS FROM MOTHER GROUP OF BATS SO IT IS NOT KNOWN WHAT OTHER SPECIES IF ANY WERE REPRESENTED. MR. COVEN'S NOTE ON 2 HE GAVE US SAID "MYOTIS ??". ON TELEPHONE MR COVEN SAID SOME-PERSON FED 1 OF REMAINING BATS — COCKROACHES BY HAND + "BAT HAD FLOWN OUT OF HOUSE WINDOW + RETURNED SOME HOURS LATER AFTER ONLY 4 DAYS OF FEEDING". ANOTHER FRIEND OF MR. COVEN WAS APPARENTLY FEED ONE OF SAME GROUP OF BATS MEALWORMS BY HAND. SMALL TICK-LIKE PARASITE SEEN LOOSE ON ONE OF OUR 2 BATS BUT IT WAS NOT COLLECTED.

MVZ #121830-31.

A.C. Zeller
1957

TADARIDA MEXICANA

BERKELEY, (2116 ALLSTON WAY), ALAMEDA Co., CALIFORNIA.

JULY 5 1 CAUGHT BY MISS SUSAN E. CHATTIN IN LARGE 2 STORY BUILDING (RED CROSS). BAT QUITE ACTIVE. APPARENTLY CAUGHT ABOUT 4:00 PM. MISS CHATTIN SAID SOMEONE ELSE SAID THERE MIGHT BE MORE BATS IN THE BUILDINGS CONCRETE & CORRERATED IRON GARAGE BUT A QUICK LOOK AT 4:30 PM TODAY SHOWED NONE IN OPEN ANYWAY AND NO PRENTY OF BEAMS & CRACKS FOR THEM TO HIDE IN. THIS 1 MAMMAL COMPRISES ACC'N 9368 & IS MVZ # 121689. A.C.Z # 775.

A.C. Ziegler
1957

LEPUS CALIFORNICUS

.7 MI. N, 2.3 MI. E MARTINEZ, (SALICORNIA MARSH), CONTRA COSTA CO. CALIF.

FEB 16 FOUND SKELETON & SAVED SKULL OF 1 FROM MARSH. SAW 1 SET OF RABBIT (OR HARE) TRACKS ON MUDDY FLAT (RUNNING) & PILE OF DROPPINGS IN SALICORNIA BUT NO LIVE LAGOMORPHS.

FEB. 17 FOUND BODY OF 1, LONG DEAD, IN DITCH IN MARSH. DITCH WAS ABOUT 3-3½ FT. DEEP & WATER CAME TO ABOUT 1 FT OF TOP. MAYBE ANIMAL FELL IN & NOT BEING ABLE TO GET UP STEEP SIDES, DROWNED. DITCH 2½ FT. WIDE.

A.C. ZIEBLER
1957

SYLVILAGUS BACHMANI

SAN PABLO RIDGE, 1000± FT., 2.5 MI. N, 4.0 MI. W ORINDA, CONTRA COSTA CO., CALIF.

JAN 29 1 ♂ CAUGHT IN QUAIL TRAP, KILLED & BROUGHT IN BY RALPH RATT & VIC LEWIN. TO MVZ. TESTES LARGE. VIC SAID MANY FLEAS. NO SPOTS ON LIVER.

A.C. ZIEBNER
1957

EUTAMIAS

DIED JULY 24

IMIL E ROYOS 150± FT., SANTA CRUZ CO., CALIF.

PUT UP 8TH + LAST MEMBER OF LITTER OF ♀ CAUGHT. MARCH. 23, 1957. SEE JOURNAL MAY 13, 1957 FOR MORE INFO. THIS LAST YOUNG ANIMAL 121 DAYS OLD. DIED ACCORDING TO VETERINARIAN OF A FAUL WHICH "RUPTURED ITS KIDNEY". IT WAS ♂ WITH QUITE A BIT OF FAT. HAD BEEN KEPT IN HOUSE AS CAPTIVE SINCE PARENT ♀ DIED ON MAY 1, 1957. MUZ # 121832.

A.C. BIERLOR
1957

EUTAMIAS DORSALIS

CANYON LAKE, T. , R. , MARICOPA Co., ARIZONA

JUNE 15 SAW A STRIPED CHIPMUNK BESIDE ROAD & RUNNING UP A ROCK BANK — WAS REDDISH-BROWN WITH SOME BLACK STRIPING. EXACT LOCATION WAS 5½ MILES S OF ABOVE LOCALITY TOWARDS APACHE JUNCTION (PINAL Co.) ON STATE HIWAY 88. LITTLE OR NO PINYON-JUNIPER ASSOCIATION — JUST MORE OR LESS DESERT SHRUBS & SAGUARO CACTUS. COUNTRY IS FAIRLY HILLY & MANY ROCKY SLOPES & PEAKS. THIS SPECIES IS THE ONLY ONE THAT OCCURS IN OR CLOSE TO THIS AREA ACCORDING TO BURT & GROSENHEIDER FIELD GUIDE TO THE MAMMALS BUT VEGETATIONAL CHARACTERISTICS OF THIS PLACE DON'T CHECK WITH THOSE GIVEN FOR E. DORSALIS.

A.C. ZEBLER
1957

PEROGNATHUS FORMOSUS

27 MI. (BY ROAD) W NEEDLES, (HIWAY 66), SAN BERNARDINO CO., CALIFORNIA.

JUNE 14 30+ PROBABLY OF THIS SPECIES TRAPPED IN GRANEWAY SHRUBBY DESERT FLAT ¼ MI. SE HIWAY. TAIL OF A FOURTH, NEOTOMA LEPIDA? TAKEN ON SMALL ROCKY OUTCROPPING NEARBY. 2 OF THESE HAD (HEADS) "BOBBED" TAILS + OR QUAKE WHO TOOK 3 ALSO SAID HIS WERE ALSO SHORT-TAILED. HE ALSO TOOK A DIPO. 2 OF MY 3 WERE TAKEN BETWEEN 9 & 10 LAST NIGHT - OTHER + THE TAIL FOUND THIS A.M.

A. C. ZEBLER
1957

DIPODOMYS OCCI

4 MI. E MEADE CO. STATE PARK, MEADE CO., KANSAS

JUNE 17 I TAKEN ON SANDY 3 FT. WIDE GULLY FLOOR IN HILLY AREA. SOIL ON SLOPES SANDY WITH ROCKS + SPARSE VEGETATION. GULLY FLOOR WATER WASHED SAND BUT DRY NOW WITH NO VEGETATION. DR. QUAY TOOK 2 MORE ½ MILE AWAY. SAW NO BURROW IN TRAPPED AREA BUT ¼ MI. AWAY ON ROAD SAW 2-1½ INCH HOLES SHOWING ACTIVITY + FEW PIECES OF RECENTLY CUT GRASS.

A. E. ZEGLER
1957

RETHRODONTOMYS MEGALOTIS

1.0 MI. N, 2.0 MI. E MARTINEZ (SALT MARSH), CONTRA COSTA CO., CALIFORNIA

FEB 17 SEE NOTE UNDER RETHRODONTOMYS RAVIVENTRIS HAMICOETES FOR FEB. 17, 1957 THIS JOURNAL

A.S. BEELER
1957

RETHRODONTOMYS RAVIVENTRIS MERRIAMI

.7 MI. N, 2.3 MI. E MARTINEZ (SALT ~~SALT WATER~~ MARSH), CONTRA COSTA CO. CALIF.

FEB 15-17 TOTAL OF TAKEN HERE BY CHAS. THEBER IN 4 NITES. SEE THIS JOURNAL THIS DATE. ALL ~~WHI~~ ANIMALS WHITE BENEATH BUT SOME OR MANY WITH PECTORAL REDDISH BAR. MUS, MICROTUS + SOREX TAKEN ALSO.

FEB 17 1.0 MI. N, 2.0 MI. E MARTINEZ .. ..

100 MUS. SPEE'S TOOK 22 HERE. MUCH MORE GRASS (1 FT. HIGH + BENDING OVER TO FORM MATS) HERE THAN IN FEB. 15-17 LOCALITY + THIS IS LOCATED ON EXTREME W EDGE OF CENTER OF MARSH. ALSO 8 MICROTUS, 6 MUS 2 SOREX. FRESH WORKINGS OF MICROTUS SEEN HERE BUT NOT IN FEB 15-17 LOCALITY. GRAZED HILLS BORDER THIS EDGE OF MARSH. SHORT (2-3 IN) GRASS + FEW SCATTERED BRECHARIS BUSHES. SOME OF THESE MAY BE R. MEGALOTIS, NOT SO REDDISH ON SIDES - MORE BROWNISH; NOT SO BLACK ON BACK; TAIL NOT SO STOUT. WHOLE ANIMAL SEEMS GENERALLY SMALLER THAN R. RAVIVENTRIS. SOME ~~OF THESE~~ TAKEN BY CHAS. THEBER ON FEB 15-17 MAY BE R. MEGALOTIS ALSO.

A.C. ZIEGLER
1957

PEROMYSCUS CALIFORNICUS

JAN 25 BIG BASIN STATE PARK, T.9S, R.3W, 1000± FT., SANTA CRUZ CO., CALIF.

GOT 12 TO 15 OF THIS SPEC. IN CREEPING FOREST AREA (SEE JOURNAL MAP) IN 100 TRAPS. NONE IN 50 TRAPS IN "F" CAMPGND. SEVERAL JUVENILES & SEVERAL SPEC'S EATEN IN TRAP. SAVED ALL ~~AD~~ ADULTS IN GOOD SHAPE. GROUND COVER LOW BUSHES, LOGS; HIGH REDWOOD COVER. 2 IN. OF HUMUS ON GROUND BUT HARD CLAY IN MANY PLACES UNDERNEATH. ALSO GOT 12-15 TREVI (?) HERE BUT NO OTHER SPECIES. MANY CALIF. FAIRLY REDDISH, NOT SO BLACKISH AS THOSE OF SAN BRUNO & BERKELEY.

A.C. ZIEGLER
1957

PEROMYSCUS TRUEI:

JAN 24 BIG BASIN STATE PARK, T. 9 S, R. 3 W, 1000± FT. SANTA CRUZ CO. CALIF.

TRAPPED 4 ATW 8:10 & 8:50. TWO OF THEM CAUGHT BY FEET &/OR TAIL – LET THEM GO. OTHER 2 COLLECTED. TAKEN IN 50 TRAPS SET IN SCOOPED OUT DIRT HOLLOW IN UNDERBRUSH. SOME REDWOODS & MUCH BRUSHY UNDERBRUSH. GROUND MOSTLY CLAY ~~BUT~~ WITH 1 INCH OR 2 OF LEAF MOLD ON IT. SOME BLACKER, LOOSER SOIL TWO.

JAN 25 GOT 8+ IN SAME LINE OF TRAPS AS ABOVE THIS A.M. SEVERAL JUVENILES (~~SAVED~~ PUT UP 1 OF JUV., 2 ADULTS)
GOT ABOUT 12 OR 15 (MANY JUV'S) IN 100 TRAPS IN CREEPING FOREST AREA (SEE MAP IN JOURNAL) ALONG WITH 12 OR 15 CALIFORNICUS (JUV'S AMONG THESE TOO?) TRAPS SET IN A FEW DUG-OUT TUNNELS; ALONG EDGES OF LOGS, IN BUSHES ETC. MOSTLY WELL-SHADED & MOIST. NOT TOO MANY UNDER-GROUND TUNNELS FOUND. ONLY THESE 2 SPECIES TAKEN IN PARK.

A.S. ZIEMER
1957

ONYCHOMYS TORRIDUS

2 MI. N, 2 MI. E McKITTRICK, KERN CO., CALIF.

JUNE 13 TOOK 1 UNDER BUSH ON SANDY, DUSTY RATHER HARD PACKED SOIL. NO WATER NEARBY BUT LOCALITY SEEMS TO HAVE BEEN FLOODED IN WASHES RECENTLY. SOME DRY GRASS, N SEED IN SMALL PATCHES. TOOK ALSO DIPODOMYS & PEROGNATHUS (DE QUAY'S SPECIMENS)

A.C. ZIEBLER
1957

SIGMODON HISPIDUS

MEADE CO. STATE PARK, MEADE CO., KANSAS

JUNE 16 & 17

SET MUS SPEC'S & RAT TRAPS IN MARSHY & ALSO SOME DRY AREAS WITH 2 FT. HI VEGETATION. CAUGHT 3 YOUNG IN HALF AN HOUR (4:30 - 5:00 AM). GOT AN ADULT ♀ & 5 MORE YOUNG. IN MORNING GOT 3 MORE YOUNG (ALSO 3 PEROMYSCUS & 1 ALVS). MANY MUS SPEC TRAPS WERE SPRUNG - PROBABLY BY THE ADULT COTTON RATS WHICH WERE NOT KILLED BY THEM. DR. QUAY, USING LIVE TRAPS, GOT 3 ADULTS & SOME YOUNG BUT NO OTHER SPECIES IN SAME TYPE OF HABITAT. WE FOUND A FEW RUNS MADE BY GRASS AND THESE WITH DEAD GRASS FRUITING HEADS ALONG THEM BUT NONE OF RUNS LOOKED AS WORN AS A WELL-USED MICROTUS RUN. ALSO NO DROPPINGS SEEN ALONG THESE RUNS. MORE SMALL QUANTITIES OF CUT GRASS STEMS & HEADS WERE SEEN IN MORE OPEN VEGETATION (GRASS & SOME KINDS OF BROAD-LEAFED PLANT - JIMSONWEED OR MAYBE "SUNFLOWER") BUT TRAPS SET HERE WERE UNSPRUNG EXCEPT FOR 1 PEROMYSCUS. THE COTTON RATS WERE CONFINED, APPARENTLY, TO RELATIVELY SMALL AREAS - SLIGHTLY DAMP & WITH THICK, TALL GRASS. EVEN WITH THE LARGE # OF THEM THE DAMAGE TO GRASS & OTHER PLANTS WAS NOT NOTICEABLE. THE ADULT ♀ HAD 8 25 MM EMB'S. RAT TRAPS OR LIVE TRAPS ARE NEEDED TO CATCH THE ADULTS.

A.C. ZIEGLER
1957

NEOTOMA LEPIDA

27 MI. (BY ROAD) W NEEDLES, (HIWAY 66), SAN BERNARDINO CO., CALIFORNIA

JUNE 14 1 IMM. TAKEN BETWEEN 9 & 10 LAST NITE ON VERY SMALL ROCKY OUTCROPPING IN SHRUBBY CREOSOTE DESERT ¼ MI. SE HIWAY. GIVEN TO DR. QUAY.

A. C. ZIEGLER
1957

NEOTOMA MICROPUS

4 MI. E MEADE CO. STATE PARK, MEADE CO., KANSAS

JUNE 17 1 ♀ (NOT FULLY MATURE?) TAKEN IN LOW MUDDY SPOT WITH SANDY BORDERING SOIL ON ~~WF~~ COTTONWOOD TRUNK THAT HAS FALLEN & WAS LAYING HORIZONTALLY 1½ FT. ABOVE THE GROUND. NO NESTS NOTICED
A PEROMYSCUS TAKEN IN SAME GENERAL AREA.

A.C. ZIEBLER
1957

MICROTUS CALIFORNICUS

.7MI. N, 2.3MI. E MARTINEZ (SALICORNIA MARSH), CONTRA COSTA CO., CALIF.

FEB 15-17 TOTAL OF TRAPPED BY CHAS. THIELER IN 90 MUS. SPEC'S IN 4 NITES. SEE THIS JOURNAL THIS DATE. SALICORNIA ONLY VERY FEW GREEN TWIGS ON IT. A FEW BUSHES HAD LEAVES (GRINDELIA) + SOME LEAVES HAD BEEN CUT NEAR GROUND BUT OTHERWISE NO GOOD. FRESH MICROTUS SIGN. GOT MANY ROTHROS, SOME MUS + SOREX.

1.0MI N, 2.0MI E MARTINEZ " " " " " "

FEB 17 SET (WITH THIELER) 100 MUS. SPEC'S ~~NEAR~~ ON EXTREME W EDGE OF MARSH IN MICROTUS RUNS + GOT 1 ABOUT 11 AM ON 16TH WHILE SETTING TRAPS. ON A.M. OF 17TH GOT 7 ~~MUS~~ MANY ROTHROS. ALSO MUS + SOREX. THESE 100 TRAPS WERE IN ADDITION TO THIELER'S 90 AT ~~THE~~ 15TH-17TH LOCATION. MICROTUS ~~SEE~~ WERE EATING GRASS HERE - NO SALICORNIA (OR VERY LITTLE GREEN SALICORNIA) AVAILABLE NOW BUT PLENTY OF DRY PLANTS MATTING MARSH JUST BESIDE MICROTUS RUNS. THIELER WILL PUT UP MICROTUS AS HE MAY WANT TO DO HIS RESEARCH ON THEM.

A. C. ZIEGLER
1957

MUS MUSCULUS

.7 MI. N, 2.3 MI. E MARTINEZ (SOLICENIA MARSH), CONTRA COSTA CO., CALIF.

FEB 15-17 TOTAL OF IN 90 TRAPS CHGS. THEREFORE ~~[illegible]~~ RAN FOR 4 NITES. SOME WHITISH BENEATH PUT UP FOR MVZ. DUMP ABOUT ¼ MI. OR LESS AWAY BUT NO HOUSES FOR AT LEAST ¾ MI. OR MORE AWAY. GOT ALSO REITHROD, MICROTUS + SOREX (SEE THIS JOURNAL THIS DATE)

1.0 MI. N, 2.0 MI. E MARTINEZ, " " " " " " " " "

FEB 17 6 IN 100 ADDITIONAL MUS. SPEC'S SET ~~[illegible]~~ YESTERDAY + RUN THIS A.M. SEE JOURNAL ALSO REITHROD., MICROTUS + SOREX. 4 OR 5 OF THESE MUS TAKEN IN TRAPS WITHIN ~~A~~ RADIUS OF 30 FT OR SO. AT BASES OF 2 FT. HIGH HILLOCKS COVERED WITH MATTED FALLEN GRASS + SHOWING OLD (+ SOME NEW MICROTUS RUNS.)

MEADE CO. STATE PARK, MEADE CO., ~~CALIF.~~ KANSAS

JUNE 17 1 (SEX NOT NOTICED), IN 2 FT. GRASS, IN SWAMP MOST MEADOW OF SEDGE? + GRASS. MANY SIGMODON CAUGHT IN IMMEDIATE VICINITY. THIS MUS WAS FAIRLY LIGHT BELOW — LIGHT TAN + BROWNISH GREY ABOVE — SKULL ~~[illegible]~~ BROKEN SO NOT SAVED. THIS AREA ABOUT ¼ TO ½ MI. FROM A HOUSE.

UNIVERSITY OF CALIFORNIA, BERKELEY, ALAMEDA CO., CALIF.

KILLED JULY 10 1957 PUT UP 11 ALBINO LAB MICE FOR M.V.Z. KNOWN AGE — SEE JOURNAL THIS DATE FOR MORE DATA. KEPT AS SKIN + SKULL TO SHOW TEETH + SKULL CHARACTERS OF 27 GRAMS, 10 DAY ♂ — OLD ANIMALS. ONE OF 1 HAS TUMOR(?) IN BEND OF SMALL INTESTINE. 1 OR 2 SEEM SLIGHTLY PARALYZED IN BACK LEGS — OTHER WISE SEEMED FAIRLY HEALTHY.

A.C. ZIEGLER
1957

PROCYON LOTOR

JAN 24 BIG BASIN STATE PARK, T.9S, R.3W, 1000± FT. SANTA CRUZ CO., CALIF.

SAW 1 20 FT. FROM MY CAR PARKED IN "G" CAMPGROUNDS SPOTTED HIM WITH LITE BUT HE MADE OFF THRU WOOD & I LOST HIM ON STREAM. THIS WAS ABOUT 8:00. HEARD CALLS WHICH WERE PROBABLY THE COON. ONE JUST LIKE A WHIP CRACKING "SEE-WHAP" GIVEN ~~TWICE~~ ONCE & REPEATED ONCE IN 30 SEC'S OR SO. AS I WAS SETTING TRAPS, IN "F" CAMPGD. I HEARD 2 SPRINGS & WENT BACK TO LOOK SAW A BIG COON (MAYBE SAME ONE AS BEFORE IN "G" 400 YDS AWAY??) HE MOVED SLOWLY IN LITE BUT AS SOON AS HE MOVED INTO A TREES SHADOW HE MUST HAVE RUN ALONG THE SHADOW 'CAUSE HE SURE DISAPPEARED QUICK. I SAW HIM A MINUTE LATER TWO & FINALLY GOT HIM TO TREE. EYES SHINED YELLOWISH SOMETIMES (ESP. ON GROUND) BUT SORT OF BLUISH-YELLOW WHEN IN TREE. HE WENT UP 20 FT. BUT WHILE LITE WAS STILL ON HIM, CAME DOWN TO 6' OF GND. I MISSED TWO, SO HE DIDN'T HAVE A CHANCE TO GET ALL WAY DOWN. AFTER SCARING HIM SEVERAL TIMES HE WENT BACK UP 30' & SAT CLEANING HIS FUR. CLAWS WERE USED TO HOLD ON TO BARK - NOT JUST WRAPPING ~~ARMS~~ LIMBS AROUND TREE. HE SOMETIMES CAME DOWN A FEW FEET HEAD FIRST - HOLDING ON LIKE A SQUIRREL. BUT MOSTLY JUST BACKING DOWN. LEFT HIM & 20 MIN. LATER CAME BACK BUT HE WAS GONE. NO CALLS GIVEN WHILE I LOOKED AT HIM.

FEB 17 PLEASANT HILL, CONTRA COSTA CO., CALIFORNIA.

1 BROT. INTO MUZ BY FRANK J. RADOVSKY OF PARASITOLOGY AT U.C., FOUND BY A FELLOW NAMED

A. L. ZIEGLER
1957

PROCYON LOTOR

PLEASANT HILL, CONTRA COSTA CO., CALIFORNIA

FOB 17 (CONT.) FERGUSON D.O.R.. SKULL SLIGHTLY BROKEN BUT FRANK HAD SKINNED OUT ANIMAL + TAKEN EXTERNAL + INTERNAL PARASITES HIMSELF. MVZ # ONLY. FARLY LARGE ♂.